

DR P-PSDB; AAY30149.

PT modulator proteins that bind to and modulate the activity of the
PT
BRCA1 tumour suppressor gene product, useful for the treatment of
PT
ovarian and breast cancer

PS Claim 1; Fig 1; 35pp; English.

CC The present sequence encodes a modulator protein, that binds to and
CC modulate the activity of the BRCA1 gene product (BRCA1). The BRCA1
CC protein has been characterized as a tumour suppressor protein.
CC Alterations in the amino acid sequence of BRCA1 causes breast and ovarian
CC cancers by removing the controls on cell growth and proliferation.
CC Research has shown that different regions on the BRCA1 molecule have
CC different effects on cell growth and tumour suppression (e.g. full length
CC truncated BRCA1 has no effect on breast cancer cell growth but will
CC inhibit ovarian cancer cell growth). It has been suggested that different
CC host cell factors (e.g. proteins) interact with different regions of the
CC BRCA1 to control its function. The identification of these proteins
CC (e.g. BRCA1MP) will facilitate the development of novel diagnostic
CC methods and new therapeutics for identifying and treating cancers caused
CC by changes in the expression or activity of BRCA1.

SQ Sequence 2065 BP; 561 A; 526 C; 561 G; 417 T; 0 other;

Query Match	54.5%	Score 1075.4;	DB 20;	Length 2065;
Best Local Similarity	75.1%	Pred. No. 1.7e-294;		
Matches 1460; Conservative	0;	Mismatches 426;	Indels 59;	Gaps 7;

QY	81	TGGTTCCTCGGCGCTTTGGAATCCAGCAGCATATCCCTATCCCTGCTCTGTGGCACTATCTG	140
Db	72	tgcgtgccttggccccctttagtccagcgcatactgctataccgctgctctcttgcactatctg	131
QY	141	CTCCGACTCTTTGCATCACTCCCTGACGCTGAGCTGCGCATCTCACTGTGTGCCACACTTTTCA	200
Db	132	ctccgaactcttcgatacactcccgcgacgtgycgcgcataccactgcygcccacacttcca	191
QY	201	TCTGCAATGCCTTAATCCAGTGTGTTGAGACAGCACCAAGTCGAGCTCGCCACACAGTGTAG	260
Db	192	ctcgcagtgactaatctcagttggttcttggagacagcaccacaagtcgcgacctgcgccacagtcgcg	251
QY	261	AATCCAGGTTGGCAAAAAAGCATTTATTAACAACCTTTCTTTGACCTCGCCCCAGAGAGA	320
Db	252	aatccaggtcttggcaaaaagcaaaacacattcaataaagctctctcttgcatacttgcacagagga	311
QY	321	GGAGAATGCTTTGGATGCGAGATTTCTTAAGAAATGAATGAATGACGTGACAGCGCTCAAACTCAGCT	380
Db	312	ggagaatgctttggatgctgagatctcttaagaatgaaactgcaacatgtcagagccagact	371
QY	381	TTTCCAGAAANACAGGGGAGAAAGGGGACGCGACGCCATTAATGAGACCTCTACGGGACAC	440
Db	372	tttccagaaanacagggagaaagggagacgacgcaggtccatcatctgacactcttgcggatcac	431
QY	441	CTTGGAAGACGCAATGCTACCGTGAAGTCCCTTAACAGACGCCCTTAACAAGGACAGAT	500
Db	432	gcttgaagaacgcaactgctacgtgtgatactcttgcagcagcgcttgcgaagccgagat	491
QY	501	GCTGTGTTCCACCCCTGAAAAACAGATGAAGTTCTCTGAGCAGCGGAGAGTGAAGACCA	560
Db	492	gctgtgtctccacacttgaaaaagacagatggaagttacttgagacagcagcaggaatgagacaa	551
QY	561	ACAAgCTTCGGGAGGAGGCCACCGACTCAAGTGCACAGATGAAAAACCATGGAGCAAAATTGA	620
Db	552	acaaagcaaaagaaagagccgcgcgcgtccagagcaagaatgaagacccatgagacagattga	611
QY	621	GCTCCTACTCCAGAGCCACGCTTTTGAGGTGGAGAGATGATATTTCAGACATGGGTGTGG	680
Db	612	gctcttactccagagccagcgcccttgcggttgcgaggaatgataccgaacacatgcggtgttgcg	671
QY	681	ACAGTCAAGCGGTGAGAGCACTGCGTGTGTACTGCGTGTCCCTCAAGAAAGATATGAGAA	740
Db	672	acagttcagcggttgcgaacagctgcgtctgtgatactggtttcttccaagaagaatgacagaa	731

[illegible]

Oy	1771	TTTTTAAACAAGGTCACATTGGACTCTAAGTGATGGAGATGCGTAGGATCCATATGA	18
Db	1808	gcttggtaagccacgcgttggaactcgttcacctgtctctctgtgaccag-----agtgcctgaagc	18
Oy	1831	GACCTGAGGAGACCCTGCCTTTGAACCTGCCGCGCCTCCAGCTTATTCGTGTAATATATGG	18
Db	1863	atctcaaggcagcctcaagcccagaagcttccaactgccctttgacttgtctctctaagcacagcct	19
Oy	1891	GCTGAGGTGGTGAATAGGGAAGGCTTGGGGAAGTTTTCGTGTATAAATAAAAAGGATCTT	19
Db	1923	ggcgcaagcagcggtgggaatgtaggatgatcatgttgatgtatgtagagagatggaagattt	19
Oy	1951	TTCCTCAAAAAAAAAAAAAAAAAA 1975	
Db	1983	tcatgtataaatataataaaaaa 2007	
 RESULT 2 AAV29062 ID AAV29062 standard; cDNA; 2065 BP.			
XX	AAV29062;		
XX	AC		
XX	DT	28-AUG-1998 (first entry)	
DE	BRCA1 modulator protein 091-21A31 cDNA.		
KW	BRCA1 modulator protein; 091-21A31; breast cancer antigen 1; tumour suppressor protein; diagnosis; therapy; human; ss.		
OS	Homo sapiens.		
FH	Key	Location/Qualifiers	
FT	CDS	103..1512	
ET		/**tag= a	
PN	WO9810066-A1.		
PD	12-MAR-1998.		
XX			
PF	06-AUG-1997; 97WO-US13944.		
PR	04-SEP-1996; 96US-0025601.		
PA	(ONVX-) ONVX PHARM INC.		
PI	Lienefalter C, Polakis P, Rubinfeld B, Vuong TT;		
DR	WPI; 1998-193616/17.		
DR	P-PsDB; AAM37881.		
PT	Breast cancer antigen 1 modulator protein - useful for diagnosing diseases involving unwanted cell growth, e.g. breast cancer, and for producing therapeutics for treatment of such diseases		
PS	Claim 5; Fig 1; 73pp; English.		
XX	This cDNA clone, designated 091-21A31 (ATCC 98141), codes for a 53 kDa BRCA1 modulator protein (see AAM37881) that binds to the tumour suppressor gene product BRCA1, and which is characterised by a zinc finger domain and a leucine zipper motif. 3 cDNA clones (see also AAV29063 and AAV29064) coding for BRCA1 modulator proteins (see AAM37881-83) were isolated from a HeLa cDNA library using a yeast two-hybrid assay with a GAL4-BRCA1(8-1293) fusion as bait. Vectors and host cells comprising the isolated nucleic acid sequences are claimed, as well as a process for producing BRCA1 modulator protein by culturing these host cells. BRCA1 modulator proteins and nucleic acids can be used to diagnose diseases involving unwanted cell growth, e.g. breast cancer, and to identify compounds that alter BRCA1 interaction with BRCA1 modulators for the treatment of such diseases.		
SQ	Sequence 2065 BP; 561 A; 528 C; 559 G; 417 T; 0 other:		

Query Match	54.3%	Score 1072.2	DB 19	Length 2065
Best Local Similarity	75.0%	Freq. No. 1.4e-293		
Matches 1458	Conservative	0	Mismatches 428	Indels 59
				Gaps
OY	81	TGGTTCCTCGGCGCTCTTGTAGTCAGACCATCATGTGCTATCTCTGTGTGACATATCG	140	
DB	72	tgagcgcctcggcccttgaccac	131	
OY	141	CTCGACATTTTGTGATCATCTCCGTGACGTGGCTGCCATCGACTGGCCACACTTTTCA	200	
DB	132	ctccgactctctgcatactcccgagcagctggccgcacacacacacacacacacacac	191	
OY	201	TCTGGAATGCCATATCCGATGGTTTGAGACACACCAATGGAGCTGGCCACACAGTATG	260	
DB	132	cttgcagtgcccaatcaccgttgcttgagacagacaccaagctggaccctgccacagtcgc	251	
OY	261	AATCCAGGTTGGCAAAAAGACTACTTATATAAACACTTTTCTTTGACTTCCCGCAGAGAA	320	
DB	252	aatccagtgctgcacaaagaacacattacataaagctctctcttgactctgcacagagga	311	
OY	321	GGAGATATGTTGGATGCGAATTTCTTAAGAATGACTGAGACGCGTAAAGCTTACGT	380	
DB	312	ggagatctctgtgatgacgaaatctctaaagaatgaactggaacatgtgacagccagct	371	
OY	381	TTCCCGAGAAAGACAGGGAACCGGACACGCGCATTTACGACATCTTCGGGACAC	440	
DB	372	ttcccgagaaagacaaaggaagaacagagacagccagtgatcatcagacacctctgcgga	431	
OY	441	CCTGGAGAACCAATGCTACCGTGGAGTCCCTACAGAAAGCGCTTTAAACAGGACAGAT	500	
DB	432	gctggaagaagcgaatgactctgtatctctgcagcagcgtcttggcaagccgagat	491	
OY	501	GCTGTGTTCCACCCCTGAAAAACACATGATGATTTCTCTGGAGACAGCGGACAGATGAGACCA	560	
DB	492	gctgtgctccacacctgaaaaagacagatgaagtacttaagagcagcagcagatgagaccaa	551	
OY	561	ACAACCTCGGAGAGGCGCCACCACTCAAGTGCAGATGAAAAACCATGAGCAATTTTA	620	
DB	552	acaagcaaaagaggggcccgcgcgctcagagcaagaatgaaagacatgagcagatga	611	
OY	621	GCTCCTACTCCAGAGCCAGCGTTCTGAGTGGAGAGAGATGATTCAGACATGGGTGGG	680	
DB	612	gcttctactccacagaccagcgcctgaggttggaagagatgataccgagacatggttggg	671	
OY	681	ACAGTCAGCGGTGGAGACACTGGGTGTATACGCGTGCCTTCAGAAAGAGATGAGAA	740	
DB	672	acaagtcagagggagagacaacagctgctgtagctgtagcttcccaaaaagaaagaa	731	
OY	741	TCTGAAGGAAGCTCGGAAGGCCACAGGGGAACTGCTGACAGGTGGAAGAGATTTGGT	800	
DB	732	tctaaagaagggcaggaaggtcctcagggaggttggctgacagctgagaaagattgct	791	
OY	801	GTTCCTCTAGACACAGTTGAAGACTCTCAACACTGAGCTGGATCAGGCCAAGTTAGACT	860	
DB	792	tctctcccaaaagcaagttgtagacagcttactcttgaaatttgatccaagccaagtlagaact	851	
OY	861	GAGGTACAGCCCGAAGAGACTTACAAAGTCTCTACCGACGAGATCCAGCGCTTAAGAAAGAA	920	
DB	852	gaagtcagccccaaggaagacttaacaggtgtctgaacaaggaatcatgagcctgtaaaaga	911	
OY	921	GTCTGATGATCTCCAGGGAACCTTGAGCCTGCTCC - GCAGCAATGAGAGCGTTAGCC	979	
DB	912	g-ctaacagatgtctgcaggaacacttgaaccttcacacaagtgccagtgagacatgtagacc	970	
OY	980	GGCTGGATTTTGAAGCCCGCGCTGTGGAATGATGTAACCGGAGAGCTTACACACCCAC	1039	
DB	971	gcctggttttagagagccagccctctgtga --- gttgaatctgaaagctccgcgcgcat	1027	
OY	1040	CCTTCCGGATGAGATTGATTCATATACCACTGTTGATGTAAATACCTCCACACCCAGA	1099	
DB	1028	cttcctcgtatataatgattctcaatgtaactttatatttgataatctccccaagccggc	1087	

QY 1100 CCTCTGGCTCCAGCATTTGCTCCCAAGAACGTGCTGCTGAGAGGGACGCTCCCA 1159
DB 1088 cctccagctccagcatggttactacgaaaaacttgcctgtagagaagtcacactcccaa 1147
QY 1160 TGCAGATGTCTCTCAAGAGGTGCAAAAGTCTCCAGCCGAGTCCACGCTCTGACTGG 1219
DB 1148 ttcagatgtctcccaagaagataltgcaaaagccccaaggaagagcccaagctctcactg 1207
QY 1220 GTGGCAGCATGTGTAGGAGAGCTAGTAGAGTGTGGCTGTGCTCTTCCCTCTTCA 1279
DB 1208 gtggccagagctgtgcaggaagagccagatgagaaactgtgtgtcctccctattttg 1267
QY 1280 TCCGGAATGCTGTCTGGGTGTCAGAAACAGCCACAGACCCACAGATCCCAAGCA 1339
DB 1268 tccggaatgctcctcctctagccagaacagcccaagagcccaagtcacagatcctcttca 1327
QY 1340 GCACAGATGTGTAAAGATAGGCTTGTATGGCTTGAAGAGCAACAATTCATCCAGC 1399
DB 1328 gcaagatgtgtlaaggaacagcttcgattggtctggtccggaacaaattccacagc 1387
QY 1400 CTAGGACACAAACCAATTATCCGACAGTGCCTGTAACTCCAGGCCAAGAGTAAACAGA 1459
DB 1388 ctactgacacagctcactgacgcgccactgcctgttaagcccaagcaaggtlaagcaga 1447
QY 1460 AAGTGAGATTAAGACACTGTGAGTCTGCTCCAGCCAGCTGATACCTTCTTATGTC 1519
DB 1448 ggtgtagggttgaagcaatgtcctctctcccaagcccaagctgacacactctcgtgt 1507
QY 1520 AG-----TGAAACGCTGACCAAGATGATTTTGCAATTAAGTGGGCCAAGAC 1564
DB 1508 cgtgagaacagtgagctgcagcaaatgagcaacacatgacacactgtgagtcgaaga 1567
QY 1565 CTGGCTAACCCGGAAGTGTTTTGAAGATGGCTCCTCTTGAGAC----- 1608
DB 1568 ctgtccagcaggggttcttctgtgacagagcccccacttccgggacagcctgaggtlaag 1627
QY 1609 -----ACTCCAGAGAGATGCCAGAAACACATCTCTGTTCACTG 1652
DB 1628 ggcagacaacagtgtaggggtgtagtgcacacccagaaacagctctctcctccacccc 1687
QY 1653 CGCCTGTCAC--ACACTGGGAGGCCACATGACAGTTTACTGTTCCGATCAGAGGGCC 1710
DB 1688 tgcgccactcctacgactggagagctgacatgaccagccactgactcgtcaagcagtc 1747
QY 1711 TACTTCAGTTGACGGGTTTGTCTATAGCTACACAGAGTGGCTGACTCCTTTGT 1770
DB 1748 tgcctcgtgtgcagggccctcgttataagcagatgcagatgtagtgcagactccttcg 1807
QY 1771 TTTTATAGACAGGCTCATCTTGACTGACTGATGATGATGAGTGTGAGATCTATGCA 1830
DB 1808 gctcgtgagacacagctcgttactgttgcactgtctcgtgacag-----agtcgtgagc 1862
QY 1831 GCGTGGAGGACCTGCGCTTAACTGCTGCTCCAGCTTATGCTTGAATTAATG 1890
DB 1863 atctcagcagcctcagcccaagcttctactcgttactgtccttactgtagcagct 1922
QY 1891 GGTGAGTGTGATAGGGAAGGTTGGGAGTTTCTGTTAAATAAAGGATCTT 1950
DB 1923 gggccaagcaggtcggggaagagatagcatggaatgtagagagatggaagattt 1982
QY 1951 TTCTTCAAAAAAATAAAAAA 1975
DB 1983 tcatgtataataataataaaaaa 2007

XX XX
DE DNA encoding novel signal transduction pathway protein, seq ID 1379.
XX
KW Neuroprotective; cytoskeletal; dermatological; immunosuppressive; tumour;
KW antiinflammatory; anti-HIV; antibacterial; antiinflammatory; cancer;
KW immune system disorder; rheumatoid arthritis; inflammatory condition;
KW organ transplant rejection; infection; hepatitis C; blood disorder;
KW sickle cell anaemia; hyperproliferative disorder; Gaucher's disease;
KW neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;
KW chromosomal abnormality; Down syndrome; ischaemia; renal disorder;
KW cardiovascular; respiratory; wound healing; endocrine; Addison's disease;
KW reproductive system; gastrointestinal; liver disorder; AIDS; ds;
XX acquired immune deficiency syndrome.
OS Homo sapiens.
XX
XX W0200154733-A1.
PD 02-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US01312.
XX
XX 31-JAN-2000; 2000US-0179065.
XX 04-FEB-2000; 2000US-0180628.
XX 24-FEB-2000; 2000US-0184664.
XX 02-MAR-2000; 2000US-0186350.
XX 16-MAR-2000; 2000US-0189874.
XX 17-MAR-2000; 2000US-0190076.
XX 18-APR-2000; 2000US-0198123.
XX 19-MAY-2000; 2000US-0205515.
XX 07-JUN-2000; 2000US-0209467.
XX 28-JUN-2000; 2000US-0214886.
XX 30-JUN-2000; 2000US-0215135.
XX 07-JUL-2000; 2000US-0216647.
XX 07-JUL-2000; 2000US-0216880.
XX 11-JUL-2000; 2000US-0217487.
XX 11-JUL-2000; 2000US-0217496.
XX 14-JUL-2000; 2000US-0218290.
XX 26-JUL-2000; 2000US-0220963.
XX 26-JUL-2000; 2000US-0220964.
XX 14-AUG-2000; 2000US-0224518.
XX 14-AUG-2000; 2000US-0224519.
XX 14-AUG-2000; 2000US-0225213.
XX 14-AUG-2000; 2000US-0225214.
XX 14-AUG-2000; 2000US-0225256.
XX 14-AUG-2000; 2000US-0225267.
XX 14-AUG-2000; 2000US-0225268.
XX 14-AUG-2000; 2000US-0225270.
XX 14-AUG-2000; 2000US-0225447.
XX 14-AUG-2000; 2000US-0225757.
XX 14-AUG-2000; 2000US-0225758.
XX 14-AUG-2000; 2000US-0225759.
XX 14-AUG-2000; 2000US-0226279.
XX 18-AUG-2000; 2000US-0226681.
XX 22-AUG-2000; 2000US-0226868.
XX 22-AUG-2000; 2000US-0227182.
XX 23-AUG-2000; 2000US-0227009.
XX 30-AUG-2000; 2000US-0228924.
XX 01-SEP-2000; 2000US-0229287.
XX 01-SEP-2000; 2000US-0229343.
XX 01-SEP-2000; 2000US-0229344.
XX 01-SEP-2000; 2000US-0229345.
XX 05-SEP-2000; 2000US-0229509.
XX 05-SEP-2000; 2000US-0229513.
XX 05-SEP-2000; 2000US-0230437.
XX 06-SEP-2000; 2000US-0230438.
XX 08-SEP-2000; 2000US-0231242.
XX 08-SEP-2000; 2000US-0231243.
XX 08-SEP-2000; 2000US-0231244.
XX 08-SEP-2000; 2000US-0231413.
XX 08-SEP-2000; 2000US-0231414.
XX 08-SEP-2000; 2000US-0232080.
XX 08-SEP-2000; 2000US-0232081.

[illegible]

PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251866.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PI Rosen CA, Barash SC, Ruben SM;
XX
XX WPI: 2001-465460/50.
DR
XX
XX
XX Novel polypeptides useful for diagnosing, treating, preventing and/or
PT prognosing disorders related to the proteins, including cancers, immune
XX disorders and neuronal disorders -
XX
PS Claim 1; SEQ ID No 1379; 860pp; English.
XX
XX
XX The invention relates to novel isolated polypeptides (I), and
CC polynucleotides (II). (I), (II) and the antibody to (I) are useful for
CC diagnosing, preventing and treating diseases including immune system
CC disorders (e.g. congenital and acquired immunodeficiencies, autoimmune
CC disorders (e.g. rheumatoid arthritis), inflammatory conditions, organ
CC transplant rejections and graft versus host disease, infectious diseases
CC (e.g. hepatitis C), bleeding disorders, haemoglobin abnormalities and
CC other blood-related disorders (sickle cell anaemia), myeloproliferative
CC disorders, primary haematopoietic disorders, hyperproliferative
CC disorders (e.g. Gaucher's disease and cancer), neurodegenerative
CC disorders (e.g. Alzheimer's disease, Parkinson's disease), chromosomal
CC abnormalities (Down syndrome), ischaemic injury (e.g. stroke), renal
CC disorders (e.g. glomerulonephritis), cardiovascular disorders
CC (e.g. arrhythmia), respiratory disorders, dermatological disorders, in
CC wound healing, epithelial cell proliferation, endocrine disorders (e.g.
CC Addison's disease), reproductive system disorders, gastrointestinal
CC disorders (inflammatory disorders), liver disorders (cirrhosis),
CC as stimulants of B-cell responsiveness to pathogens, activators of
CC T-cells, to induce higher affinity antibodies, and as a means to induce
CC tumour proliferation in pathologies e.g. acquired immune deficiency
CC syndrome (AIDS). AA526976-AA527850 represent novel signal transduction
CC pathway protein coding sequences and PCR primers of the invention.
XX
XX Sequence 148 BP; 38 A; 33 C; 56 G; 21 T; 0 other;

Query Match	5.1%	Score 100;	DB 22;	Length 148;
Best Local Similarity	87.9%	Pred. No. 2.8e-18;		
Matches 109;	Conservative 0;	Mismatches 15;	Indels 0;	Gaps 0;
QY	81	TGGTTCCTGGGCTGCTTGAAGTGAAGCCATATGCTATCTCTCTGTGCATATCTG	140	
Db	124	TGGTGCCTGGGCCCCCTTGAAGTGCAGGCATATGCTATCTCTGTGCATATCTG	65	
QY	141	CTCCGACTTCTTCATCACTCCCGAGCTGGCTGCCATCCACTGTGGCCACTTTCA	200	
Db	64	CTCCGACTTCTTCATCACTCCCGAGAGTGGCCGCAATCACTCGGGCACACTTCCA	5	
QY	201	TCCTG		
Db	4	CTTG 1		
RESULT 4				
AA575164/c				
ID	AA575164	standard;	cdNA;	1506 BP.
XX				
AC	AA575164;			
XX				

DT 13-FEB-2002 (first entry)
XX DNA encoding novel human diagnostic protein #10968.
XX
DE Human: chromosome mapping; gene mapping; gene therapy; forensic;
KM food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX Homo sapiens.
OS
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
XX 30-MAR-2001; 2001WO-US08631.
PF
XX 31-MAR-2000; 2000US-0540217.
PR 23-AUG-2000; 2000US-0649167.
XX
XX (HYSE-) HYSEQ INC.
PA
PI Drmanac RT, Liu C, Tang YT;
XX
XX WPI, 2001-639362/73.
DR P-PSDB; ABG10977.
XX
XX New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensic, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity -
XX
XX
XX Claim 1; SEQ ID No 10968; 103pp; English.
PS
XX The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensic, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pcl_sequences.
XX
XX Sequence 1506 BP; 245 A; 514 C; 348 G; 399 T; 0 other;
SQ

Query Match 2.88; Score 55.2; DB 23; Length 1506;
Best Local Similarity 44.9%; Pred. No. 5.1e-05;
Matches 210; Conservative 0; Mismatches 258; Indels 0; Gaps 0;

QY 509 CCACCTGAAAAACAGATGAATTCCTGAGCAGCGGAGATGACCAACCAACTC 568
DB 1319 CCATCCCAATGACAGACTGAGCGGCTTGAGACAGCTGGGGAGAGAACCAACGCGTTGC 1260
QY 569 GGGAGGAGGCCCACTCAAGTGAATGAAACCAATGACCAATTCAGCTCCTAC 628
DB 1259 TGAAGCAGACAGAGATGCTGACCCAGAGAGGAGGCGCATCAGCTCAGACACAGT 1200
QY 629 TCCAGAGCCAGCGTTCTGAGAGTGAATTCAGACACATGGCTGGAGACAGTTCAG 688
DB 1199 GCGCCCTCTCCCTGAGAGAGGTTTGAGCGCATCCACCATGAGCTGACACAGGCCAGCGCG 1140

QY 689 CGGTGAGACAGCTGGCTGTACTGCTGTCCTCAAGAAAGATGATGAAATCTGAAG 748
DB 1139 AGAACAAAGACACTGCAATGGAGATGAGACTGCTGCGAGTGAAGTACCGAGCTGAA 1080
QY 749 AAGCTCGAAAGGCCACAGGGGAACCTGAGTGAAGAAAGATTGGTCTCTA 808
DB 1079 CCACGCGAGGTGAAGACAGCAAGAGGATCGGAATACAGGAGGACGAGCGCTGT 1020
QY 809 GGAGCAGTTGAAGACTCTCAACACTGAGCTGGATCGAGGCAAGTTAGACTGAGTCA 868
DB 1019 ACAGCGATACAGCTCATATGATGATGAGCTGACAGGTCATCTGAGCTGAGACAGC 960
QY 869 CCCAGAAAGACTTACAAAGTCTGACCCAGAGATCAAGCAGCTTAAGAAAGTCTGATG 928
DB 959 TGCAGACCGAAAGTGGAGCTGGCGAGTCCAAAGCTCAAGACAGACACATCTGAAGAAG 900
QY 929 ATCCTCCAGGGAACCTTGAGCCCTGCTCCGACCAATGAGACGGTCA 976
DB 899 CGGCCAATGAGAGATGAGCGCGCTCGCGCAGATCAAAAGACAGGTGA 852

RESULT 5
AAS84859
ID AAS84859 standard; cDNA; 5154 BP.
XX
AC AAS84859;
XX
XX 13-FEB-2002 (first entry)
DT
XX
XX DNA encoding novel human diagnostic protein #20663.
DE
XX
XX Human: chromosome mapping; gene mapping; gene therapy; forensic;
KM food supplement; medical imaging; diagnostic; genetic disorder; ss.
OS
XX Homo sapiens.
XX
XX WO200175067-A2.
XX
XX 11-OCT-2001.
XX
XX 30-MAR-2001; 2001WO-US08631.
XX
XX 31-MAR-2000; 2000US-0540217.
PR 23-AUG-2000; 2000US-0649167.
XX
XX (HYSE-) HYSEQ INC.
PA
PI Drmanac RT, Liu C, Tang YT;
XX
XX WPI, 2001-639362/73.
DR P-PSDB; ABG20672.
XX
XX New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensic, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity -
XX
XX Claim 1; SEQ ID No 20663; 103pp; English.
PS
XX The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensic, gene mapping, identification of mutations in

DE Partial mouse WRN genomic sequence #2.
XX
XX Mouse; WRN; Werner's syndrome; detection; diagnosis; autosomal;
KM recessive disorder; phenotype: ss.
XX
OS Mus musculus.
XX
XX WO9724435-A1.
XX
XX 10-JUL-1997.
XX
XX 30-DEC-1996; 96WO-US20785.
XX
XX 12-APR-1996; 96US-0632175.
XX 29-DEC-1995; 95US-0009409.
XX 29-DEC-1995; 95US-0580539.
XX 30-JAN-1996; 96US-0010835.
XX 30-JAN-1996; 96US-0594242.
XX
XX (DARW-) DARWIN MOLECULAR CORP.
XX (OSHI/) OSHIMA J.
XX
XX Fu Y, Mulligan J, Oshima J, Schellenberg GD, Yu C;
XX
XX WPI: 1997-363671/33.
XX
XX Isolated nucleic acid molecule encoding the WRN gene product -
PT useful for detection and treatment of Werner's syndrome, and related
PT diseases
XX
XX Claim 1; Fig 7; 1533p; English.
XX
XX This sequence represents a fragment of the genomic sequence containing
CC the coding region for the mouse WRN gene (AA03004). The corresponding
CC human gene (AA03001) encodes a protein related to Werner's syndrome.
CC The products can be used for the detection and treatment of Werner's
CC syndrome (WS), an autosomal recessive disorder with a complex phenotype,
CC as well as related diseases.
XX
XX Sequence 16442 BP; 4392 A; 2975 C; 3408 G; 5665 T; 2 other:
SQ

Query Match 2.2%; Score 44.4; DB 18; Length 16442;
Best Local Similarity 46.2%; Pred. No. 0.22;
Matches 147; Conservative 0; Mismatches 171; Indels 0; Gaps 0;

QY 535 CTGAGACGCGCAGATGAGACCAACAGAGCTCGGAGAGGCCACCGACTCAAGTGC 594
DB 16438 CAGGAGGAGGAGCAGAGCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 16379
QY 595 AAGATGAACCATGAGCAATGAGTCTCTACTCCAGACCCAGCGTTTGAGGTGAG 654
DB 16378 GAGAGGAGGAGCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 16319
QY 655 GAGATGATTCGAGCATGGGTGTGGACAGTCAGCGGAGAGCTGTGTGACTGC 714
DB 16318 CAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 16259
QY 715 GTGTCCCTCAAGAAAGATATGAAATCTGAAGAAAGCTCGAAGGCCACAGGGAAGCTG 774
DB 16258 CAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 16199
QY 775 GCTACAGGTTGAGGAAGGATTTGTGTCTCTAGGAGCAAGTGAAGACTCTCAACT 834
DB 16198 AAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 16139
QY 835 GAGCTGATCAGGCCAAG 852
DB 16138 AAGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 16121

RESULT 9
AAC46364

ID AAC46364 standard; DNA: 744 BP.
XX
XX AAC46364;
AC
XX 18-OCT-2000 (first entry)
DT
XX
XX Arabidopsis thaliana DNA fragment SEQ ID NO: 49870.
DE
XX
XX Hybridisation assay; genetic mapping; gene expression control;
KM protein identification; signal transduction pathway;
KM metabolic pathway; promoter; termination sequence; ss.
XX
XX Arabidopsis thaliana.
XX
XX EPI033405-A2.
XX
XX 06-SEP-2000.
XX
XX 25-FEB-2000; 2000EP-0301439.
XX
XX 25-FEB-1999; 99US-0121825.
XX 03-MAR-1999; 99US-0123180.
XX 09-MAR-1999; 99US-0123548.
XX 23-MAR-1999; 99US-0125788.
XX 25-MAR-1999; 99US-0126264.
XX 29-MAR-1999; 99US-0126785.
XX 01-APR-1999; 99US-0127462.
XX 06-APR-1999; 99US-0128234.
XX 08-APR-1999; 99US-0128714.
XX 16-APR-1999; 99US-0129845.
XX 19-APR-1999; 99US-0130077.
XX 21-APR-1999; 99US-0130449.
XX 23-APR-1999; 99US-0130510.
XX 23-APR-1999; 99US-0130891.
XX 28-APR-1999; 99US-0131449.
XX 30-APR-1999; 99US-0132048.
XX 30-APR-1999; 99US-0132407.
XX 04-MAY-1999; 99US-0132484.
XX 05-MAY-1999; 99US-0132485.
XX 06-MAY-1999; 99US-0132486.
XX 06-MAY-1999; 99US-0132487.
XX 07-MAY-1999; 99US-0132863.
XX 11-MAY-1999; 99US-0134256.
XX 14-MAY-1999; 99US-0134218.
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XX 14-MAY-1999; 99US-0134221.
XX 14-MAY-1999; 99US-0134370.
XX 18-MAY-1999; 99US-0134768.
XX 19-MAY-1999; 99US-0134941.
XX 20-MAY-1999; 99US-0135124.
XX 21-MAY-1999; 99US-0135353.
XX 24-MAY-1999; 99US-0135629.
XX 25-MAY-1999; 99US-0136021.
XX 27-MAY-1999; 99US-0136392.
XX 28-MAY-1999; 99US-0136782.
XX 01-JUN-1999; 99US-0137222.
XX 03-JUN-1999; 99US-0137528.
XX 04-JUN-1999; 99US-0137502.
XX 07-JUN-1999; 99US-0137724.
XX 08-JUN-1999; 99US-0138094.
XX 10-JUN-1999; 99US-0138540.
XX 10-JUN-1999; 99US-0138847.
XX 14-JUN-1999; 99US-0139119.
XX 16-JUN-1999; 99US-0139412.
XX 16-JUN-1999; 99US-0139453.
XX 17-JUN-1999; 99US-0139492.
XX 18-JUN-1999; 99US-0139454.
XX 18-JUN-1999; 99US-0139455.
XX 18-JUN-1999; 99US-0139456.
XX 18-JUN-1999; 99US-0139457.
XX 18-JUN-1999; 99US-0139458.
XX 18-JUN-1999; 99US-0139459.
XX 18-JUN-1999; 99US-0139460.

Db 348 tcaagaatgagcttgatgatctca 371

RESULT 10

ID AAC38464 standard; DNA: 746 BP.

XX

AC AAC38464;

XX

DT 17-OCT-2000 (first entry)

XX

DE Arabidopsis thaliana DNA fragment SEQ ID NO: 21066.

XX

KM Hybridisation assay: genetic mapping: gene expression control;

KW protein identification; signal transduction pathway;

KW metabolic pathway; promoter; termination sequence; ss.

XX

OS Arabidopsis thaliana.

XX

PN EPI033405-A2.

XX

PD 06-SEP-2000.

XX

PF 25-FEB-2000; 2000EP-0301439.

XX

PR 25-FEB-1999; 99US-0121825.

PR 05-MAR-1999; 99US-0123180.

PR 09-MAR-1999; 99US-0123548.

PR 23-MAR-1999; 99US-0125788.

PR 25-MAR-1999; 99US-0126264.

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PR 16-APR-1999; 99US-0129845.

PR 19-APR-1999; 99US-0130077.

PR 21-APR-1999; 99US-0130449.

PR 23-APR-1999; 99US-0130510.

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PR 28-APR-1999; 99US-0131449.

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PR 19-MAY-1999; 99US-0134941.

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PR 21-MAY-1999; 99US-0135353.

PR 24-MAY-1999; 99US-0135629.

PR 25-MAY-1999; 99US-0136021.

PR 27-MAY-1999; 99US-0136392.

PR 28-MAY-1999; 99US-0136782.

PR 01-JUN-1999; 99US-0137222.

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PR 18-JUN-1999; 99US-0139460.

PR 18-JUN-1999; 99US-0139461.

PR 18-JUN-1999; 99US-0139462.

PR 18-JUN-1999; 99US-0139463.

PR 18-JUN-1999; 99US-0139750.

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PR 21-JUN-1999; 99US-0139817.

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PR 24-JUN-1999; 99US-0140695.

PR 28-JUN-1999; 99US-0140823.

PR 29-JUN-1999; 99US-0140991.

PR 30-JUN-1999; 99US-0141287.

PR 01-JUL-1999; 99US-0141842.

PR 01-JUL-1999; 99US-0142154.

PR 02-JUL-1999; 99US-0142055.

PR 06-JUL-1999; 99US-0142380.

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PR 09-JUL-1999; 99US-0142920.

PR 12-JUL-1999; 99US-0142977.

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PR 16-JUL-1999; 99US-0144085.

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PR 03-AUG-1999; 99US-0147038.

PR 04-AUG-1999; 99US-0147204.

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PR 06-AUG-1999; 99US-0147303.

PR 06-AUG-1999; 99US-0147416.

PR 09-AUG-1999; 99US-0147493.

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PR 10-AUG-1999; 99US-0148171.

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PR 12-AUG-1999; 99US-0148341.

PR 13-AUG-1999; 99US-0148565.

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PR 17-AUG-1999; 99US-0149175.

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PR 05-OCT-1999; 99US-0157753.
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PR 13-OCT-1999; 99US-0159293.
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PR 14-OCT-1999; 99US-0159329.
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PR 18-OCT-1999; 99US-0159584.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
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PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
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PR 25-OCT-1999; 99US-0161404.
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PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.
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Best Local Similarity 51.0%; Pred. No. 0.053;

Matches 104; Conservative 0; Mismatches 100; Indels 0; Gaps 0;

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Db 168 agtggaggaagagagagagagagagagagagagagagagagagagagatgg 227
QY 602 AAACCATGAGCAATATGAGCTCTACTCCAGAGCAAGCCGTTTCGAGGTGAGGAGATGA 661
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Db 228 aagagagagagagagagagagagagagagagagagagagagagagagatgt 287
QY 662 TTCGAGACATGGTGTGGACATCAGCGGTGAGACAGCTGCTGTACTGCGTGC 721
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Db 288 gttcagagagagcagtgaggaagaagctgtggagaggtggaagcagcttacttcta 347
QY 722 TCAGAAAGAGTATGAGAAATCTGA 745
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Db 348 tcaagaatgagcttgatgatctca 371
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RESULT 11

AA158369

ID AA158369 standard; cDNA: 7453 BP.

XX AA158369;

DT 22-OCT-2001 (first entry)

DE Human polynucleotide SEQ ID NO 572.

XX Human; nontropic; immunosuppressant; cytostatic; gene therapy; cancer;

KW peripheral nervous system; neuropathy; central nervous system; CNS;

KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;

KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;

KW chemokine; thrombolytic; drug screening; arthritis; inflammation;

XX leukaemia; ss.

OS Homo sapiens.

XX WO200153312-A1.

XX 26-JUL-2001.

PF 26-DEC-2000; 2000MO-US34263.

XX 21-JAN-2000; 2000US-0488725.

PR 25-APR-2000; 2000US-0552317.

PR 09-JUL-2000; 2000US-0598042.

PR 19-JUL-2000; 2000US-0620312.

PR 03-AUG-2000; 2000US-0653450.

PR 14-SEP-2000; 2000US-0662191.

PR 19-OCT-2000; 2000US-0693036.

PR 29-NOV-2000; 2000US-0727344.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;

PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;

PI Zhao OA, Zhou P, Goodrich R, Drmanac RT;

XX WPI: 2001-442253/47.

DR P-PSDB: AAM39213.

XX Novel nucleic acids and polypeptides, useful for treating disorders

PT such as central nervous system injuries -

PS Claim 1; SEQ ID NO 572; 10078bp; English.

XX The invention relates to human nucleic acids (AA157798-AA161369) and

CC the encoded polypeptides (AAM38642-AAM42213) with nontropic,

CC immunosuppressant and cytostatic activity. The polynucleotides are useful

CC in gene therapy. A composition containing a polypeptide or polynucleotide

CC of the invention may be used to treat diseases of the peripheral nervous

CC system, such as peripheral nervous injuries, peripheral neuropathy and

CC localised neuropathies and central nervous system diseases, such as

CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic

CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the

CC utilisation of the activities such as: immune system suppression,

CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic

CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,

CC assays for receptor activity, arthritis and inflammation, leukaemias and

CC C.N.S disorders.

CC Note: The sequence data for this patent did not form part of the printed

CC specification.

KW Leukaemia; ss.

Query Match	2.2%	Score 43.8;	DB 22;	Length 7741;
Best Local Similarity	46.5%;	Pred. No. 0.21;		
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OY	373	GCTCAGCTTTTCCCAGAAAAGACAGGGAGAAACGCGACAGCCAGCCATTATCGACACTCTA	432	
Db	4262	tcccagttggtctataccacaagaagaagtagtgscgcacctbggaacaatttgaagtctcg	4321	
OY	433	CGGGACACCCTTGGAAGAAGCAGCAATCTTACCGTGGAGTCCTTACAGAACGCCCTTAACAAG	492	
Db	4322	gaaggaagccaagaagaagctctctgaaggaacyggagggcccttgacgaagcgcctlgagag	4381	
OY	493	GCAGAGATGCTGTGTTCCACCCTGAATAAACAGATGAAGTTCTTGAGACGGCGCAGAT	552	
Db	4382	aaggaacgcggcgtatgacnaaacctggagaagaccaaagcccttcgaagagagctggac	4441	
OY	553	GAGACCAAAACAAGCTCGGAGGAGGCGCCACCGACTCAAGTGCAAGATGAATAACCATGGAG	612	
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XX	AC	AAK82155;		
XX	DT	07-NOV-2001 (first entry)		
XX	XX			
DE	Human	immune/haematopoietic antigen genomic sequence SEQ ID NO:36967.		
XX	KW	Human: immune; haematopoietic; immune/haematopoietic antigen; cancer;		
KM	cytostatic; gene therapy; vaccine; metastasis; ds.			
XX	Homo sapiens.			
OS	XX			
PN	MO200157182-A2.			
XX	PD			
XX	09-AUG-2001.			
PF	17-JAN-2001; 2001WO-US01354.			
XX	XX			
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PR	04-FEB-2000; 2000US-0180628.			
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PR	16-MAR-2000; 2000US-019874.			
PR	17-MAR-2000; 2000US-0190076.			
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PR	19-MAY-2000; 2000US-0205515.			
PR	07-JUN-2000; 2000US-0209467.			
PR	28-JUN-2000; 2000US-0214886.			
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PR	07-JUL-2000; 2000US-0216880.			
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PR	14-JUL-2000; 2000US-0218290.			
PR	26-JUL-2000; 2000US-0220963.			
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PR	14-SEP-2000	2000US-02323299
PR	14-SEP-2000	2000US-02324000
PR	14-SEP-2000	2000US-02324001
PR	14-SEP-2000	2000US-02324003
PR	14-SEP-2000	2000US-02324004
PR	14-SEP-2000	2000US-02324005
PR	14-SEP-2000	2000US-02324006
PR	14-SEP-2000	2000US-02324007
PR	14-SEP-2000	2000US-02324008
PR	14-SEP-2000	2000US-02324009
PR	14-SEP-2000	2000US-02324010
PR	14-SEP-2000	2000US-02324011
PR	14-SEP-2000	2000US-02324012
PR	14-SEP-2000	2000US-02324013
PR	14-SEP-2000	2000US-02324014
PR	14-SEP-2000	2000US-02324015
PR	14-SEP-2000	2000US-02324016
PR	14-SEP-2000	2000US-02324017
PR	14-SEP-2000	2000US-02324018
PR	14-SEP-2000	2000US-02324019
PR	14-SEP-2000	2000US-02324020
PR	14-SEP-2000	2000US-02324021
PR	14-SEP-2000	2000US-02324022
PR	14-SEP-2000	2000US-02324023
PR	14-SEP-2000	2000US-02324024
PR	14-SEP-2000	2000US-02324025
PR	14-SEP-2000	2000US-02324026
PR	14-SEP-2000	2000US-02324027
PR	14-SEP-2000	2000US-02324028
PR	14-SEP-2000	2000US-02324029
PR	14-SEP-2000	2000US-02324030
PR	14-SEP-2000	2000US-02324031
PR	14-SEP-2000	2000US-02324032
PR	14-SEP-2000	2000US-02324033
PR	14-SEP-2000	2000US-02324034
PR	14-SEP-2000	2000US-02324035
PR	14-SEP-2000	2000US-02324036
PR	14-SEP-2000	2000US-02324037
PR	14-SEP-2000	2000US-02324038
PR	14-SEP-2000	2000US-02324039
PR	14-SEP-2000	2000US-02324040
PR	14-SEP-2000	2000US-02324041
PR	14-SEP-2000	2000US-02324042
PR	14-SEP-2000	2000US-02324043
PR	14-SEP-2000	2000US-02324044
PR	14-SEP-2000	2000US-02324045
PR	14-SEP-2000	2000US-02324046
PR	14-SEP-2000	2000US-02324047
PR	14-SEP-2000	2000US-02324048
PR	14-SEP-2000	2000US-02324049
PR	14-SEP-2000	2000US-02324050
PR	14-SEP-2000	2000US-02324051
PR	14-SEP-2000	2000US-02324052
PR	14-SEP-2000	2000US-02324053
PR	14-SEP-2000	2000US-02324054
PR	14-SEP-2000	2000US-02324055
PR	14-SEP-2000	2000US-02324056
PR	14-SEP-2000	2000US-02324057
PR	14-SEP-2000	2000US-02324058
PR	14-SEP-2000	2000US-02324059
PR		

Seq	Sequence	3229 BP	830 A	837 C	1045 G	517 T	0 other
QY	Query Match	2.2%;	Score 43.2;	DB 22;	Length 3229;		
QY	Best Local Similarity	48.4%;	Pred. No. 0.2;				
Matches	151; Conservative	0;	Mismatches 158;	Indels 3;	Gaps 1;		
QY	544 CGCGAGATGAGACCAACAAAGCTCGGAGAGAGGCCACCGACTCAACAGTCAATGATAA	603					
Db	97	156					
QY	604 ACCATGGAGCGAAATGTGACTCTACTCCAGAGCCAGCGCTTGAGGTGAGAGCAATGATT	663					
Db	157	216					
QY	664 CGAGCATGGGTGTGTGGACAGCTACGCGGTGGAGACAGCTGCTGTGTACTGTGCTGTC--	720					
Db	217	276					
QY	721 CTCAGAAAGAGATGAGAAATCTGAGAGAACTCGGAAGGCCACAGGGGAACCTGCTGAC	780					
Db	277	336					
QY	781 AGGTGAGAGAGGATTTGCTGCTCTAGAGCAAGTGAAGACTCTCAACACTGAGCTG	840					
Db	337	396					
QY	841 GATCAGGCCAAG 852						
Db	397	408					
RESULT	16						
AAS69541							
ID	AAS69541 standard; CDNA: 390 BP.						
AC	AAS69541:						
XX							
DT	13-FEB-2002 (first entry)						
XX							
DE	DNA encoding novel human diagnostic protein #5345.						
XX							
KW	Human; chromosome mapping; gene mapping; gene therapy; forensic;						
XX	food supplement; medical imaging; diagnostic; genetic disorder; ss.						
OS	Homo sapiens.						
XX							
PN	WO200175067-A2.						
PD							
XX	11-OCT-2001.						
XX							
PF	30-MAR-2001; 2001WO-US08631.						
XX							
PR	31-MAR-2000; 2000US-0540217.						
FR	23-AUG-2000; 2000US-0649167.						
XX							
PA	(HYSE-) HYSEQ INC.						
XX							
PI	Dzmanac RT, Liu C, Tang YT;						
XX							
DR	WPI: 2001-639362/73.						
XX							
DR	P-PSDB; ABG05354.						
XX							
PT	New isolated polynucleotide and encoded polypeptides, useful in						
PT	diagnostics, forensics, gene mapping, identification of mutations						
PT	responsible for genetic disorders or other traits and to assess						
PT	biodiversity						
PS	Claim 1; SEQ ID No 5345; 103pp; English.						
XX							
CC	The invention relates to isolated polynucleotide (I) and						
CC	polypeptide (II) sequences. (I) is useful as hybridisation probes,						

FH	Key	location/Qualifiers
FT	CDS	1..3399
FT		/*tag= a
FT	misc-feature	1150..3218
FT		/*tag= b
FT		/note= "fragment referred to in the claims, for
FT		use as insert in a recombinant vaccine
FT		against chicken leucocytozoan disease"
XX		
PN	JP07284392-A.	
XX		

RESULT	18
ABI99537	
ID	ABI99537 standard; cDNA; 1080 BP.
XX	
AC	ABI99537;
XX	
DT	07-MAR-2002 (first entry)
XX	
XX	Mouse Ischaemic condition related cDNA sequence SEQ ID NO:537
XX	

KM Mouse; ischaemia; compressive ischaemia; occlusive ischaemia;
 KM vasospastic ischaemia; ischaemic condition; ischaemic disease; ss.
 OS Mus musculus.
 PN W0200188188-A2.
 PD 22-NOV-2001.
 PF 18-MAY-2001; 2001MO-JP04192.
 PR 18-MAY-2000; 2000JP-0145977.
 PA (UYN1-) UNIV NIHON SCHOOL JURIDICAL PERSON.
 PI Ishikawa K, Asai S, Takahashi Y, Nagata T, Ishii Y;
 DR WPI; 2002-034733/04.
 DR P-PSDB; ABB57221.
 XX
 XX Examining the ischemic condition (e.g. occlusive ischemia) by measuring
 PT expression levels of particular genes defined in the specification or
 PT by determining the expression profile of a gene group comprising these
 PT genes -
 PS
 PS Claim 2; Page 1472-1473; 2690pp; English.
 XX
 XX The present invention describes a method for examining ischemic
 CC conditions, comprising measuring the expression levels of particular
 CC genes (1) in a test sample or determining the expression profile of a
 CC gene group in the sample comprising genes selected from (1). The method
 CC is useful for examining the ischemic condition (e.g. compressive
 CC ischemia, occlusive ischemia or vasospastic ischemia) by measuring
 CC expression levels of particular genes (AB199202 to AB199912, encoding
 CC the protein sequences in ABB57020 to ABB57374) or by determining the
 CC expression profile of a gene group comprising these genes. The
 CC expression levels or expression profiles produced by these genes are
 CC used as an indicator when screening for ischemic condition-improving
 CC drugs or therapeutics for ischemic diseases. AB199913 and AB199914
 CC represent PCR primers for a mouse ischemic condition related sequence,
 CC which are used in the exemplification of the present invention.
 CC
 XX Sequence 1080 BP; 370 A; 191 C; 390 G; 129 T; 0 other;
 SQ
 Query Match 2.1%; Score 42.4; DB 24; Length 1080;
 Best Local Similarity 45.3%; Pred. No. 0.18;
 Matches 134; Conservative 0; Mismatches 186; Indels 0; Gaps 0;
 QY 517 AAAAAACAGATGAAGTTCTCGAGACGCGAGATGAGACCAAAACAGCTCGGAGAG 576
 DB 703 aaaaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 762
 QY 577 GCCCACCAGCTCAAGTGCAGATGAAAAACCATGAGCAAAATTGAGCTCTACTCCAGAGC 636
 DB 763 gaggagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 822
 QY 637 CACCGTTCTAGAGTGGAGGAGATGATTCGAGACATGGGTGTGGACACGTAGCGGTGAG 656
 DB 823 aaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 882
 QY 697 CACCTGCGCTTGTACTGCGTCCCTCAGCAAGAGATATGAGATCTGAAGGAAGCTCGG 756
 DB 883 aaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 942
 QY 757 AAGGCACACAGGGAACCTGCTGACAGGTTGAAGAAGGATTTGGTCTCTAGAGCAAG 816
 DB 943 aaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 1002
 QY 817 TTGAAGACTCTCAACACTGAGCTGATCAGGCCAAGTTAG 856
 DB 1003 aagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 1042

RESULT 19
 ID AAN71065 standard; DNA: 2000 BP.
 XX
 XX AAN71065;
 AC
 XX
 XX 01-JAN-1980 (first entry)
 DT
 XX
 DE Gene encoding Plasmodium cynomolgi sporozoite circumsporozoite
 DE protein.
 XX
 KM Immunogen; vaccine; malaria; immunodominant epitope; DNA probe; ss.
 KM
 OS Plasmodium cynomolgi.
 PI
 FH Key Location/Qualifiers
 FT CDS 326..1534
 FT /tag- a
 FT /product- circumsporozoite protein
 FT
 PN W08700533-A.
 PD
 XX
 XX 29-JAN-1987.
 PD
 PF 24-JUN-1986; 86MO-US01373.
 XX
 XX 12-JUL-1985; 85US-0754645.
 PR
 PA (UYN1-) NEW YORK UNIV.
 PA (ARNO/) ARNOT D E.
 XX
 PI Arnot DE, Enea V, Nussenzwei RS, Nussenzweig V;
 XX
 DR WPI; 1987-037250/05.
 DR P-PSDB; AAP70709.
 XX
 XX New Plasmodium vivax circumsporozoite protein - and synthetic
 PT peptide(s) contg. its dominant epitope, useful in anti-malarial
 PT vaccines
 PT
 PS Disclosure; fig. 6; 32pp; English.
 XX
 XX The gene encoding the circumsporozoite protein of P. cynomolgi
 CC is used during the detection of the circumsporozoite protein of P.
 CC vivax. A DNA probe from this P. cynomolgi sequence was a 700 bp
 CC psiI fragment encoding the C-terminal domain and about 350
 CC bases of the 3' untranslated region of the gene. Specifically,
 CC the probe, designated P236-7, encompasses bases 851-1827 flanked
 CC by C and G tails. This gene is useful in the construction of an
 CC anti-malarial vaccine. See also AAP70704-08 and AAN71064.
 CC
 XX Sequence 2000 BP; 655 A; 318 C; 527 G; 500 T; 0 other;
 SQ
 Query Match 2.1%; Score 41.6; DB 8; Length 2000;
 Best Local Similarity 43.5%; Pred. No. 0.43;
 Matches 188; Conservative 0; Mismatches 244; Indels 0; Gaps 0;
 QY 370 AAGCTCAGCTTCCCGAAGACAGGAGAAACGGAGACGCGCATTATGCACT 429
 DB 531 aaggagctgataaaccataaaagaagaagaagaagaagaagaagaagaagaaga 590
 QY 430 CTAGGGACACCTTGAAGAACCAATGCTACCGTGGAGTCCCTACAGAACCTTTAAAC 489
 DB 591 cgaataaataagctgaaacaacaagaagaatgtagctgctgcaagaagaagaaga 650
 QY 490 AAGCGAGAGATGCTGTGTTCCACCTGAAAGAAACAGATGAAGTCTGAGAGCGGCGAG 549
 DB 651 atgattgagctgctgctgcaagaagaagaagaagaagaagaagaagaagaaga 710
 QY 550 GATGAGACCAAAACACCTCGGAGGAGGCCACACGACTCAAGTGAAGTGAAGAACCAAG 609

XX WPI: 2000-679539/66.
DR Low adenosine (A) content antisense oligonucleotides which do not
XX trigger adenosine receptors during metabolism, useful e.g. for treating
PT cancers and respiratory obstructions -
PT
PS
XX Disclosure; Page 1045-1046; 1592pp; English.
XX
CC The present invention describes low adenosine (A) content antisense
CC oligonucleotides and compositions (I) comprising them. In the antisense
CC oligonucleotides the A is replaced by a 'universal' or alternative base.
CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
CC immunosuppressive, antispasmodic, hypotensive and cyostatic activities.
CC The antisense oligonucleotides and (I) can be used to down-regulate the
CC expression and or activity of target polypeptides associated with
CC lung/respiratory disorders and malignancies, such as stimulating and
CC activating peptide factors and transmitters, transcription factors,
CC immunoglobulins and antibodies, antibody receptors, cytokines and
CC chemokines, endogenously produced specific and non-specific enzymes,
CC binding proteins, adhesion molecules and their receptors, cytokine and
CC chemokine receptors, adenosine receptors, bradykinin receptors, central
CC nervous system (CNS) and peripheral nervous and non-nervous system
CC receptors, CNS and peripheral nervous and non-nervous system peptide
CC transmitters, defensins, growth factors, vasoactive peptides and
CC receptors, binding proteins and malignancy associated proteins. The
CC antisense oligonucleotides may be used in this way to treat disorders
CC including respiratory obstruction (especially pulmonary obstruction
CC and/or bronchoconstriction) and/or lung inflammation, allergy(ies)
CC and/or surfactant hypoproduction which are associated with a disease or
CC condition selected from pulmonary vasoconstriction, inflammation,
CC allergies, asthma, impeded respiration, respiratory distress syndrome
CC (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary
CC hypertension, emphysema, chronic obstructive pulmonary disease (COPD),
CC pulmonary transplantation rejection, pulmonary infections, bronchitis,
CC and/or cancer. AAR18433 to AAR21543 represent human polynucleotide
CC fragments and antisense oligonucleotides used in the exemplification of
CC the present invention.
XX
XX Sequence 1994 BP; 429 A; 585 C; 633 G; 347 T; 0 other;
SQ
Query Match 2.1%; Score 40.8; DB 21; Length 1994;
Best Local Similarity 46.2%; Pred. No. 0.73;
Matches 135; Conservative 0; Mismatches 157; Indels 0; Gaps 0;
OY 528 GAAGTTCCTGGAGCAGCGGCGAGATGAGACCAACAGCTGGGAGAGGCCACCGACT 587
DB 961 ggaagccctggtgccaacagagagtgatcgataagctgaagagagcgagcagca 1020
OY 588 CAAGTGCAGATGAAACCATGAGCAAAATTGAGCTCTTACTCCAGAGCCGCGTTCTGA 647
DB 1021 caagatgtgtagagacgctgcgtgctgaagagccagcgatattctacaagcgga 1080
OY 648 GGTGAGAGAGATGATTCGACATGCGTGTGGACAGTCAAGCGGTGAGCAGTGGCTGT 707
DB 1081 ctccaagcgtgagagcagcgccgagagagctgcccgaagaagagagcctccgcagga 1140
OY 708 GTACTGGGTGCTCCCAAGAAAGATGATGAAATCTGAGAGAACTCGGAAGGCCACAGG 767
DB 1141 gcagctggaagagctggaagagagctacagcaactgaagccagctgtcagagagtcg 1200
OY 768 GGAAGCTGGCTGACAGTGTGAAGAAGATTGTTGCTCTCTGAGAGCAAGTTG 819
DB 1201 cagagatcgagagacatgagagagcgcatgtctccagagcccccctg 1252

RESULT 22
AAC81426
ID AAC81426 standard; cDNA; 1994 BP.
AC AAC81426;
XX

DT 23-FEB-2001 (first entry)
XX
DE Human I-kappa-B kinase gamma-subunit (IKK-gamma) cDNA.
XX
KW Human: I-kappa-B kinase; IKK; antisense therapy; gene therapy;
KW cytokine expression inhibition; NF-kappa-B activation inhibition;
KW nuclear factor-kappa-B; rheumatoid arthritis; immune disorder;
KW cancer; IKK-gamma; gamma-subunit; ss.
XX
OS Homo sapiens.
XX JP2000253884-A.
XX
XX 19-SEP-2000.
XX
XX 10-MAR-1999; 99JP-0063291.
XX
XX 10-MAR-1999; 99JP-0063291.
XX
XX (TOAG) TOA GOSPEI CHEM IND LTD.
XX
XX WPI: 2000-658813/64.
XX
XX Antisense nucleic acid compound complementary to the subunit of
PT IkappaB, used to treat rheumatic arthritis, immune diseases and cancer
PT
PS Claim 3; Page 14-15; 20pp; Japanese.
XX
XX The invention relates to an antisense oligonucleotide targeted to
CC a gene encoding a subunit of I-kappa-B kinase (IKK) which inhibits its
CC expression, and thereby inhibits expression of a cytokine such as
CC IL-6 (interleukin-6). I-kappa-B kinase activates NF-kappa-B (nuclear
CC factor-kappa-B) which acts a transcriptional regulator of cytokine
CC genes. The antisense oligonucleotide can be used in gene therapy to
CC treat rheumatoid arthritis, immune disorders and cancers. Sequences
CC AAC81422-C81426 are cDNAs derived from genes whose expression may be
CC inhibited using an antisense oligonucleotide of the invention.
CC The present sequence represents a human IKK-gamma subunit cDNA.
XX
XX Sequence 1994 BP; 429 A; 585 C; 633 G; 347 T; 0 other;
SQ

Query Match 2.1%; Score 40.8; DB 21; Length 1994;
Best Local Similarity 46.2%; Pred. No. 0.73;
Matches 135; Conservative 0; Mismatches 157; Indels 0; Gaps 0;
OY 528 GAAGTTCCTGGAGCAGCGGCGAGATGAGACCAACAGCTGGGAGAGGCCACCGACT 587
DB 961 ggaagccctggtgccaacagagagtgatcgataagctgaagagagcgagcagca 1020
OY 588 CAAGTGCAGATGAAACCATGAGCAAAATTGAGCTCTTACTCCAGAGCCGCGTTCTGA 647
DB 1021 caagatgtgtagagacgctgcgtgctgaagagccagcgatattctacaagcgga 1080
OY 648 GGTGAGAGAGATGATTCGACATGCGTGTGGACAGTCAAGCGGTGAGCAGTGGCTGT 707
DB 1081 ctccaagcgtgagagcagcgccgagagagctgcccgaagaagagagcctccgcagga 1140
OY 708 GTACTGGGTGCTCCCAAGAAAGATGATGAAATCTGAGAGAACTCGGAAGGCCACAGG 767
DB 1141 gcagctggaagagctggaagagagctacagcaactgaagccagctgtcagagagtcg 1200
OY 768 GGAAGCTGGCTGACAGTGTGAAGAAGATTGTTGCTCTCTGAGAGCAAGTTG 819
DB 1201 cagagatcgagagacatgagagagcgcatgtctccagagcccccctg 1252

RESULT 23
AAA35027
ID AAA35027 standard; DNA; 1994 BP.
AC AAA35027;
XX

[illegible]

Oy	588	CAATGCAAGATGAAAAACCATGAGCAAAATTGAGCTCCTACTCCAGACCCAGCGTTCTGA	647
Db	1021	caagatctgctgaggaagccgcttcgcgtctgctgaagcccaagcgagatctcaagaagcgga	1080
Oy	648	GGTGCAGCAATGATATTCGAGACATWGGCTGTGGACAGTCAGCGGTGAGACAGCTGGCGT	707
Db	1081	cttcacgagctgagagcgagcccgaggaagctgagccgaagaagaagagagccctcgagga	1140
Oy	708	GTACTCGGTGTCCCTCAAGAAAGATGATGAGATCTGAAGAGAGCTCGAAGCCACAGC	767
Db	1141	gcacgtgagcagcgtgcagagggagatcacgacaactggaagcgacgtctcagagatcgcc	1200
Oy	768	GGACCTGGCTGACAGCGTTGGAAGAGCATTTGGTCTCTACGACAGCAAGTTG	819
Db	1201	cagagtcgagagacatgaggaagcgcatctgagatctccagagccctctg	1252
RESULT	24		
ID	AAZ07513		
XX	AAZ07513	standard; DNA; 2009 BP.	
XX	AAZ07513;		
Dt	26-NOV-1999	(first entry)	
XX			
DE	Human RIP-associated protein (RAP-2) encoding DNA.		
KM	Receptor interacting protein; RIP-associated protein-2; RAP-2; RIP;		
KW	Inflammation; cell death; cell survival; septic shock; hepatitis;		
KW	gift versus host rejection; diabetes; multiple sclerosis; tumor;		
KW	HIV infection; p55-receptor; Fas-receptor; human; ss.		
XX			
OS	Homo sapiens.		
XX			
XX	W09947672-A1.		
FN			
PD	23-SEP-1999.		
XX			
PF	18-MAR-1999; 99MO-IL00158.		
XX			
PR	19-MAR-1998; 98IL-0123758.		
PR	01-SEP-1998; 98IL-0126024.		
XX			
PA	(YEDA) YEDA RES & DEV CO LTD.		
XX	(YESH) UNIV YESHIVA EINSTEIN COLLEGE.		
PI	Wallach D, Kovalenko A, Horwitz MS, Li Y;		
XX			
DR	WPI; 1999-562113/47.		
XX	P-PSDB; AAY27430.		
PT			
PT	New receptor interacting protein-associated protein-2, used to develop		
XX	products for treating, e.g. septic shock, tumors or HIV infection		
PS	Claim 4; Fig 1A-B; 132pp; English.		
XX			
CC	This DNA encodes a receptor interacting protein (RIP)-associated protein		
CC	-2 (RAP-2). The RAP-2 proteins, isoforms, analogs, fragments or		
CC	derivatives or DNA can be used for the modulation or mediation of the		
CC	RIP modulated/mediated intracellular effects on the inflammation, cell		
CC	death or cell survival pathways in which RIP is involved directly or		
CC	indirectly via other modulators/mediators of these pathways. They can be		
CC	used for treating e.g. septic shock, graft versus host rejection, acute		
CC	hepatitis, diabetes or multiple sclerosis. They can also be used for		
CC	treating tumor cells or HIV-infected cells or other diseased cells. The		
CC	RAP-2 binding proteins can also be used for modulating/mediating the function		
CC	of RAP-2. The products can also be used for diagnostic purposes, e.g. for		
CC	identifying disorders related to abnormal functioning of cellular effects		
CC	mediated by the p55-R, Fas-R or other related receptors.		
XX			
SO	Sequence 2009 BP; 418 A; 587 C; 643 G; 356 T; 5 other;		

XX DR WPI: 2000-679539/66.
XX
PT Low adenosine (A) content antisense oligonucleotides which do not
PT trigger adenosine receptors during metabolism, useful e.g. for treating
PT cancers and respiratory obstructions -
XX
PS Disclosure; Page 1046-1048; 1592pp; English.
XX
CC The present invention describes low adenosine (A) content antisense
CC oligonucleotides and compositions (I) comprising them. In the antisense
CC oligonucleotides the A is replaced by a 'universal' or alternative base.
CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
CC immunosuppressive, antispasmodic, hypotensive and cytostatic activities.
CC The antisense oligonucleotides and (II) can be used to down-regulate the
CC expression and or activity of target polypeptides associated with
CC lung/respiratory disorders and malignancies, such as stimulating and
CC activating peptide factors and transmitters, transcription factors,
CC immunoglobulins and antibodies, antibody receptors, cytokines and
CC chemokines, endogenously produced specific and non-specific enzymes,
CC binding proteins, adhesion molecules and their receptors, cytokine and
CC chemokine receptors, adenosine receptors, bradykinin receptors, central
CC nervous system (CNS) and peripheral nervous and non-nervous system
CC receptors, CNS and peripheral nervous and non-nervous system peptide
CC transmitters, defensins, growth factors, vasoactive peptides and
CC receptors, binding proteins and malignancy associated proteins. The
CC antisense oligonucleotides may be used in this way to treat disorders
CC including respiratory obstruction (especially pulmonary obstruction
CC and/or bronchoconstriction) and/or lung inflammation, allergy(ies)
CC and/or surfactant hypoproduction which are associated with a disease or
CC condition selected from pulmonary vasoconstriction, inflammation,
CC allergies, asthma, impeded respiration, respiratory distress syndrome
CC (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary
CC hypertension, emphysema, chronic obstructive pulmonary disease (COPD),
CC pulmonary transplantation rejection, pulmonary infections, bronchitis,
CC and/or cancer. AAF18434 to AAF21543 represent human polynucleotide
CC fragments and antisense oligonucleotides used in the exemplification of
CC the present invention.
XX
SQ Sequence 8631 BP; 2280 A; 2050 C; 2270 G; 2031 T; 0 other;

Query Match 2.1%; Score 40.8; DB 21; Length 8631;
Best Local Similarity 46.2%; Pred. No. 1.6;
Matches 135; Conservative 0; Mismatches 157; Indels 0; Gaps 0;

OY 528 GAAGTTCGTGAGCAGCGCGAGATGAGACCAACCACTCGGAGAGCGCCACCAGCT 587
DB 7598 ggaagccctgtgtgccaacaacagagtgatcgtataagctgaagagagccgagca 7657
OY 588 CAAGCGCAAGATGAACCATGAGCAAAATGAGCTCTACTCCAGAGCCGCTTGA 647
DB 7658 caagatgtgtcgtgagacggtccggtgctgaagagccagcgatatacaagaagcgca 7717
OY 648 GGTGAGAGAGATGATTCGAGACATGGGTGAGACAGTCAACGGTGGAGCTGGCTGT 707
DB 7718 ctccagcgtgagagagccgaggaagctgcccgaagaagaagagccctcgcaaga 7777
OY 708 GTACTGCTGTCCCTCAAGAAAGATATGAGATCTGAGAGAGCTGGAAAGCCACAGG 767
DB 7778 gcagctgtgagcagctgcagagaggtacagcaactgaaggcagctgtcaggaagtcggc 7837
OY 768 GGAAGCTGCTGACAGGTGAGAGAGATTTGGTCCCTAGAGCAAGCTTG 819
DB 7838 cagagatcagagacatgagaaagcgagatcgcaggtcccaagccctctg 7889

RESULT 27
AAA35028
ID AAA35028 standard; DNA: 8631 BP.
XX
AC AAA35028;

DT 28-JUL-2000 (first entry)
XX
DE Human adenosine receptor related polynucleotide SEQ ID NO:2717.
XX
KW Human; adenosine receptor; low adenosine antisense oligonucleotide;
KW phosphorothioate; impaired respiration; inflammation; allergy;
KW allergic disease; bronchoconstriction; inhibitor; antiinflammatory;
KW antiallergic; antispasmodic; cytostatic; analgesic; impaired airway;
KW lung disease; ischemic condition; pulmonary vasoconstriction; asthma;
KW respiratory distress syndrome; pain; cystic fibrosis; emphysema;
KW pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
KW cancer; Leukaemia; Lymphoma; carcinoma; metastasis; ss.
XX
OS Homo sapiens.
XX
PN WO200009525-A2.
XX
PD 24-FEB-2000.
XX
PF 03-AUG-1999; 99WO-US17712.
XX
PR 03-AUG-1998; 98US-0095212.
XX
PA (UYEC-) UNIV EAST CAROLINA.
XX
PI Nyce JM;
XX
DR WPI: 2000-205971/18.
XX
PS New antisense oligonucleotides useful for treating e.g. pulmonary
PT vasoconstriction, inflammation, allergies, asthma, hypertension,
PT bronchitis, emphysema, respiratory distress syndrome, ischemia or
PT cancers -
XX
DQ Disclosure; Page 969-971; 1343pp; English.
XX
CC The present invention describes a new composition comprising an
CC antisense oligonucleotide (ON) with low adenosine (up to 15%), which
CC targets nucleic acids involved in bronchoconstriction, allergies, and/or
CC inflammation. The ON can have antiinflammatory, antiallergic,
CC antispasmodic, cytostatic and analgesic activities. The compositions are
CC useful for the treatment of diseases associated with inflammation,
CC impaired airways, including lung disease and diseases whose secondary
CC effects afflict the lungs of a subject. They can be used for treating
CC e.g. ischaemic conditions, pulmonary vasoconstriction, allergies,
CC asthma, impeded respiration, respiratory distress syndrome, pain, cystic
CC fibrosis, pulmonary hypertension, emphysema, chronic obstructive
CC pulmonary disease (COPD), and cancers such as leukaemias, lymphomas,
CC carcinomas, and cancers which may metastasise to the lungs, including
CC breast and prostate cancer. The reduction of the adenosine content of
CC the ONs reduces side effects. The A-containing ONs break down with the
CC release of deoxyadenosine which activates adenosine receptors causing
CC bronchoconstriction and inflammation. AAA33313 to AAA35112 represent the
CC nucleotide sequences given in the sequence listing from the present
CC invention, which correspond to SEQ ID NO:1 to 2815, and then the last
CC 185 sequences are also called SEQ ID NO:1 to 185, but the sequences
CC differ from the previously named sequences. SEQ ID NO:11 to 1680
CC (AAA33323 to AAA33992) are specifically claimed ONs from the present
CC invention. N.B. Sequences given in the disclosure of the present
CC invention do not match up with their corresponding SEQ ID NO: sequences
CC given in the sequence listing.
XX
SQ Sequence 8631 BP; 2280 A; 2050 C; 2270 G; 2031 T; 0 other;

Query Match 2.1%; Score 40.8; DB 21; Length 8631;
Best Local Similarity 46.2%; Pred. No. 1.6;
Matches 135; Conservative 0; Mismatches 157; Indels 0; Gaps 0;

OY 528 GAAGTTCGTGAGCAGCGCGAGATGAGACCAACCACTCGGAGAGCGCCACCAGCT 587
DB 7598 ggaagccctgtgtgccaacaacagagtgatcgtataagctgaagagagccgagca 7657


```
QY 588 CAAGTGAAGATGAAACCATGAGCAAAATTGAGCTCTACTCCAGAGCCAGCGTTCTGA 647
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 7658 caagatgtgagtggagcgcttcgctgtaaggccagcgcatctacaaagcgga 7717
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 648 GGTGAGAGAGATGATTCAGACATGGGTGTGGACAGTGCAGGTGGAGCAGCTGGCTGT 707
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 7718 ctccagagctgagagagcgcccgaggaagctggccgagagaagagagctctcagga 7777
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 708 GTACTGCGTCTCCCTCAGAAAGAGTATGAGAACTGTAAGAGAGCTCGAAGGCCACAGG 767
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 7778 gcaagctgagcagctgctgagagaggaacagcaactggaagccagctgcaagagtcgagc 7837
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 768 GGAACCTGGCTGACAGCTTGAAGAGATTTGCTGCTCTAGAGCAAGATTG 819
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 7838 cagagtcgagagcagaggaagcgagctgagagtcgagtcctccagagcccttg 7889
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 28
AAA30290
ID AAA30290 standard; DNA; 3489 BP.
XX
AC AAA30290;
XX
DE 11-SEP-2000 (first entry)
XX
XX Kaposi's sarcoma-associated herpesvirus LANA gene.
XX
KW Kaposi's sarcoma-associated herpesvirus; KSHV; rhadino virus;
KW latency-associated nuclear antigen; LANA; gamma-2 herpes virus;
KW human herpes virus 8; HHV8; rhadino virus cis-acting element; RVCAE;
KW Kaposi's sarcoma; primary effusion lymphoma; PEL;
KW human immunodeficiency virus; HIV; multicentric Castleman's disease; ds.
XX
OS Kaposi's sarcoma-associated herpesvirus.
XX
FH Key Location/Qualifiers
FT CDS 1..3489
FT /tag- a
FT /product= "LANA"
FT misc_signal 40..50
FT /tag- b
FT /note= "nuclear localisation signal, NLS"
FT misc_signal 190..210
FT /tag- c
FT /note= "nuclear localisation signal, NLS"
XX
PN WO200029626-A1.
XX
PD 25-MAY-2000.
XX
PE 19-NOV-1999; 99WO-US27508.
XX
PR 19-NOV-1998; 98US-0109422.
PR 21-APR-1999; 99US-0298568.
XX
PA (KIEF/) KIEFF E. D.
PA (BALU/) BALLESTAS M E.
PA (KAYE/) KAYE K M.
XX
PI Kieff ED, Ballestas ME, Kaye KM;
XX
DR WPI: 2000-387829/33.
DR P-PSDB: AAY96255.
XX
PT Treating or preventing a disease associated with rhadino virus
PT infection in a mammal which includes Kaposi's Sarcoma and Primary
PT Effusion Lymphoma
XX
PS Disclosure: Fig 6; 70pp; English.
XX
CC The present sequence is the Kaposi's sarcoma-associated herpesvirus,
CC (KSHV) latency-associated nuclear antigen (LANA) gene. KSHV is also known
CC as Human Herpes Virus 8 (HHV8) and belongs to the rhadino virus, or
```

```
CC gamma-2 herpes virus class. The LANA protein is necessary for the
CC efficient persistence of rhadino virus DNA in mammalian cells. Persistent
CC rhadino virus infection is implicated in a variety of diseases e.g.
CC Kaposi's Sarcoma (KS), Primary Effusion Lymphoma (PEL) and multicentric
CC Castleman's disease. In addition, KS is a common malignancy in HIV
CC patients. KSHV persists in host cells in a latent form. One of the few
CC genes expressed from the latent viral DNA is LANA. LANA associates with
CC both human chromosomes and with the rhadino virus cis-acting element
CC (RVCAE), thereby providing a tethering function: the KSHV DNA episome is
CC "tied" to the host chromosomes. This allows the viral DNA to persist in
CC the host cell. The present sequence may be used to screen and identify
CC molecules that inhibit LANA interaction with RVCAE, thereby interfering
CC with the latency cycle of this virus. Potential antiviral treatments for
CC the above mentioned diseases may therefore be based on LANA deregulation.
XX
SQ Sequence 3489 BP; 1053 A; 862 C; 1137 G; 437 T; 0 other;

Query Match 2.0%; Score 40.4; DB 21; Length 3489;
Best Local Similarity 44.0%; Pred. No. 1.3;
Matches 170; Conservative 0; Mismatches 216; Indels 0; Gaps 0;

QY 514 CTGAAAAAAGATGAGATCTCTGGAGAGCGCGAGATGAGACCAAAAGCTCGGAG 573
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2191 cagcagagatgagcagcagcagcagatgagcagcagcagcagcagcagcagcagcag 2250
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 574 GAGGCCACCGACTCAAGTGCAGATGCAAAACATGAGCAAAATTGAGCTCTACTCCAG 633
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2251 gatbaacagagagcagcagagagagcagcagcagcagcagcagcagcagcagcagcag 2310
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 634 AGCCAGCTGTGAGCTGGAGAGATGATTCAGACATGGCTGTGGACAGTCAGCGGTG 693
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2311 gagcagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 2370
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 694 GAGCAGCTGCTGTGTACTGTGCTCCCTCAAGAAAGCTGTGAGATCTCAAGAGAGCT 753
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2371 gagagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 2430
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 754 CGGAAGCCACAGGGAAGTGTGATGAGTGAAGAGATTTGCTCTAGAGAGC 813
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2431 ttagaagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 2490
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 814 AAGTTGAAGACTCTCAACACTGAGCTGAGTACAGCCCAAGTTAGAACTGAGTCAAGCCAG 873
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2491 gacttgaagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 2550
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 874 AAGCACTTCAAAAGTGTGACACAGA 899
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2551 gtggaagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 2576
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 29
AAF82901
ID AAF82901 standard; DNA; 3489 BP.
XX
AC AAF82901;
XX
DE 29-JUN-2001 (first entry)
XX
XX Nucleotide sequence of KSHV tethering protein, LANA.
XX
KW Histone H1; tethering protein; LANA; gene therapy; multiple sclerosis;
KW Parkinson's disease; Huntington disease; diabetes; human herpesvirus 8;
KW KSHV; latency-associated nuclear antigen; LANA; ds.
XX
OS Kaposi's sarcoma associated herpesvirus.
XX
FH Key Location/Qualifiers
FT CDS 1..3489
FT /tag- a
XX
PN WO200125484-A2.
XX
```


PD 12-APR-2001.
XX
XX 29-SEP-2000; 2000WO-US26908.
XX
XX 01-OCT-1999; 9905-0410399.
XX
XX (UNMI) UNIV MICHIGAN.
XX
PI Robertson ES, Cotter MA;
XX
DR WPI; 2001-281736/29.
XX
DR P-PSDB; AAB62331.
XX
XX A composition for use in gene therapy comprises an expression vector
PT that includes a nucleic acid sequence encoding a nucleic acid binding
PT protein -
XX
XX Disclosure; Fig 9A; 60pp; English.
XX
XX The invention provides a composition comprising nucleic acid, histone H1
CC protein and expression vector operationally encoding a protein suitable
CC for tethering the nucleic acid to the histone H1 protein, where the
CC tethering protein is LANA. The composition is useful in aiding the
CC retention of the viral DNA in the host cell. The viral vector encodes a
CC protein suitable for tethering DNA to histone H1. Methods for screening
CC for compounds which are agonistic or antagonistic for the tethering of
CC viral proteins to histone H1 and DNA binding sites are useful for
CC developing the method of viral transfer. The composition has applications
CC to gene therapy, including the treatment of multiple sclerosis,
CC Parkinson's disease, Huntington disease and diabetes. The present
CC sequence represents the nucleotide sequence of the Kaposi's sarcoma
CC associated herpesvirus (human herpesvirus 8) latency-associated nuclear
CC antigen (LANA), which acts as a tethering protein.
XX
XX
SQ Sequence 3489 BP; 1053 A; 862 C; 1137 G; 437 T; 0 other;

Query Match 2.0%; Score 40.4; DB 22; Length 3489;
Best Local Similarity 44.0%; Pred. No. 1.3;
Matches 170; Conservative 0; Mismatches 216; Indels 0; Gaps 0;

QY 514 CTGAAAAAAGCATGATGATGCTGAGCAGCGGAGATGAGACCAAAAGCTCGGAG 573
DB 11
DB 2191 GAGCAGATGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 2250
QY 574 GAGGCCCAAGCAGCTCAAGTGAATGAAACCATGAGCAATTTGAGCTCTTACTCCAG 633
DB 11
DB 2251 GATGAACAGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 2310
QY 634 AGCCAGCGTTCTGAGGTGAGAGATGATTCGAGCATGGGTGTGGACATCAGCGGTG 693
DB 11
DB 2311 GAGCAGATGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 2370
QY 694 GAGCAGCTGAGCTGTACTGCTGCTCCCTCAAGAAAGATGATGAGATCTAAGGAAGCT 753
DB 11
DB 2371 GAGGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 2430
QY 754 CGGAAGCCAGCAGGGAATGCTGACAGGTTGAAGAAAGATTGGTGTCTCTTAGAGC 813
DB 11
DB 2431 ttagagagagcagagcagagtagtagagagcagagcagagtagtagagagcagag 2490
QY 814 AAGTTGAAGACTCTCAACACACAGCTGGATGAGGCCAAGTAGAAGCTAGATCAGCCAG 873
DB 11
DB 2491 gagttagagagcagagcagagtagttagagagcagagtagttagagagcagagtag 2550
QY 874 AAGGACTTACAAGTGTGACACAGA 899
DB 11
DB 2551 gtggagagagcagagcagagtag 2576

RESULT 30
AAV73805/C
ID AAV73805 standard; DNA: 32207 BP.

XX
XX AAV73805;
AC
XX 25-FEB-1999 (first entry)
DT
XX
XX KSHV LUR DNA (nucleotides 105,301-137,507).
DE
XX
XX Kaposi's sarcoma: acquired immune deficiency syndrome; AIDS. DHFR; Bcl-2;
KW dihydrofolate reductase; LUR; long unique region; vaccine; prophylaxis;
KW diagnosis; treatment; HHV8; capsid protein IV; tegument protein IV;
KW glycoprotein; Kaposin; cyclin D; immediate early protein; IEP; ox-2;
KW v-adv; G-protein coupled receptor; FGFRAT; ds.
XX
XX
OS Kaposi's sarcoma-associated herpesvirus.
XX
XX US5849564-A.
PN
XX
PD 15-DEC-1998.
XX
PF 29-NOV-1996; 96US-0770379.
XX
XX 29-NOV-1996; 96US-0770379.
PR
XX
XX (UYCO) UNIV COLUMBIA NEW YORK.
PA
XX
XX PI Bohenzky RA, Chang Y, Edelman IS, Moore PS, Russo JT;
XX
XX WPI; 1999-069741/06.
DR
XX
XX Kaposi's sarcoma-associated herpes virus nucleic acid - encodes
PT dihydrofolate reductase and is useful for treatment, prophylaxis
PT or diagnosis of Kaposi's sarcoma
XX
XX
XX Disclosure; Column 155-182; 109pp; English.
PS
XX
XX This sequence is a fragment of the Kaposi's sarcoma-associated
CC herpesvirus (KSHV) LUR (long unique region). This fragment contains
CC coding regions for ORF5 which encodes capsid protein IV, ORF6, ORF7
CC which encodes tegument protein IV, ORF8 which encodes a glycoprotein,
CC ORF9, K12 which encodes Kaposin, K13, ORF72 which encodes cyclin D,
CC ORF73 which encodes immediate early protein (IEP), K14 which encodes
CC ox-2 (v-adv), ORF74 which encodes G-protein coupled receptor, ORF75
CC which encodes tegument protein/FGFRAT, K15, KSHV is a new human
CC Herpesvirus (HHV8) believed to cause Kaposi's sarcoma (KS) which is the
CC most common form of neoplasm occurring in persons with acquired immune
CC deficiency syndrome (AIDS). The DHFR protein is useful for vaccination,
CC prophylaxis, diagnosis and treatment of a subject with Kaposi's sarcoma
CC and for detecting expression of a DNA virus associated with Kaposi's
CC sarcoma in a cell.
XX
XX
SQ Sequence 32207 BP; 7229 A; 9156 C; 8713 G; 7109 T; 0 other;

Query Match 2.0%; Score 40.4; DB 20; Length 32207;
Best Local Similarity 44.0%; Pred. No. 4.3;
Matches 170; Conservative 0; Mismatches 216; Indels 0; Gaps 0;

QY 514 CTGAAAAAAGCATGATGATGCTGAGCAGCGGAGATGAGACCAAAAGCTCGGAG 573
DB 11
DB 19806 CAGCAGATGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 19747
QY 574 GAGGCCCAAGCAGCTCAAGTGAATGAAACCATGAGCAATTTGAGCTCTTACTCCAG 633
DB 11
DB 19746 GATGAACAGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 19687
QY 634 AGCCAGCGTTCTGAGGTGAGAGATGATTCGAGCATGGGTGTGGACATCAGCCGCTG 693
DB 11
DB 19686 GAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGT 19627
QY 694 GAGCAGCTGAGCTGTACTGCTGCTCCCTCAAGAAAGATGAGATCTAAGGAAGCT 753
DB 11
DB 19626 GAGGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 19567

```

Oy 754 CGAAGCCACAGGGAGTGGCTGACAGGTGTAAGAGATTGGTGTCTCTAGAGAC 813
    |||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db 19566 TTAGAGACAGCAGACAGAGTTAGAGCAGCAGAGACTTGAAGAGAGAGCAG 19507
Oy 814 AAGTTGAAGACTCTCAACACTAGCTGCATCAGCCACTTGAAGTCAAGCCAG 873
    ||||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db 19506 GAGTTAGAGAGCAGCAGAGAGTTAGAGCAGAGGTGGAAGAGCAGAGCAGNG 19447
Oy 874 AAGACTTACAAAGTGTGACCAGCA 899
    |||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db 19446 GTGGAAGAGCAGCAGAGCAGCAGCA 19421

RESULT 31
AAV19941/C
ID AAV19941 standard; DNA; 137507 BP.
XX
XX AAV19941;
AC
XX
XX 03-AUG-1998 (first entry)
DT
XX
XX KSHV Long unique coding region and terminal repeat.
DE
XX
XX KSHV; HHV8; human herpes virus 8; macrophage inflammatory protein II;
KW Interleukin-6; IL-6; Interferon regulatory factor; rheumatoid arthritis;
KW complement-binding protein; glycoprotein; capsid protein IV; infection;
KW immediate early protein; Kaposi's sarcoma; protective vaccine; lymphoma;
KW lymphoproliferative disease; leukaemia; splenomegaly; mycosis fungoides;
KW HIV immune status; anti-inflammatory agent; therapy; ds.
XX
XX Kaposi's sarcoma-associated herpes virus.
OS
XX
XX Key Location/Qualifiers
FH 1142..2794
FT CDS
FT /*tag= a
FT /product= complement-binding protein
FT 8699..11236
FT /*tag= b
FT /product= glycoprotein B
FT complement (17261..17875)
FT /*tag= c
FT /product= interleukin 6
FT complement (21548..21832)
FT /*tag= d
FT /product= macrophage inflammatory protein II
FT complement (27137..27424)
FT /*tag= e
FT /product= interferon regulatory factor 1
FT 28661..29741
FT /*tag= f
FT /product= protein TI.1
FT complement (58976..60175)
FT /*tag= g
FT /product= glycoprotein M
FT complement (69412..69915)
FT /*tag= h
FT /product= glycoprotein L
FT complement (88410..88910)
FT /*tag= i
FT /product= interferon regulatory factor 2
FT 89600..90541
FT /*tag= j
FT /product= interferon regulatory factor 3
FT 90173..90643
FT /*tag= k
FT /product= glycoprotein X
FT complement (93636..94127)
FT /*tag= l
FT /product= interferon regulatory factor 4
FT complement (111931..112443)
FT /*tag= m
FT /product= capsid protein IV
FT complement (123808..127296)
FT CDS

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FT /*tag= n
FT /product= immediate early protein
FM W09804576-A1.
XX
XX 05-FEB-1998.
PD
XX
XX 22-JUL-1997; 97WO-US13346.
XX
XX 29-NOV-1996; 96US-0757669.
XX 25-JUL-1996; 96US-0686243.
XX 25-JUL-1996; 96US-0686349.
XX 25-JUL-1996; 96US-0686350.
XX 25-JUL-1996; 96US-0687253.
XX 25-JUL-1996; 96US-0688814.
XX 05-SEP-1996; 96US-0708678.
XX 10-OCT-1996; 96US-0728323.
XX 13-NOV-1996; 96US-0747887.
XX 13-NOV-1996; 96US-0748640.
XX
XX (UYCO ) UNIV COLUMBIA NEW YORK.
XX
XX Bohenzky RA, Chang Y, Edelman IS, Moore PS, Russo JJ;
PI WPI; 1998-130615/12.
XX
XX New nucleic acid encoding Kaposi's sarcoma associated herpes virus
PT proteins -- useful for, e.g. detecting levels of HHV8 in, and
PT preparation of vaccines for treatment of, HIV patients
XX
XX Example 2; Page 135-203; 230pp; English.
XX

```

This sequence represents the long unique region and terminal repeat of the Kaposi's sarcoma-associated herpes virus (KSHV). KSHV is also known as human herpes virus 8 (HHV8). This sequence contains the DNAs of the invention which encode KSHV polypeptides selected from: (a) viral macrophage inflammatory protein (MIP) II; (b) viral interleukin-6 (IL-6); (c) viral IRF 1; (d) complement-binding protein; glycoproteins B, M or L; (d) capsid protein IV encoded by ORF65; and (e) immediate early protein encoded by ORF73. Labelled probes for the nucleic acid, proteins encoded by it, and antibodies (Ab) specific for the proteins are useful for detecting HHV8, specifically for diagnosis of Kaposi's sarcoma, in body fluids or tissue samples. HHV8 infections can be treated with antisense or triplex forming molecules or agents that bind specifically to the protein. Ab may be used for prophylaxis or treatment of HHV8 infection, while the protein can be used in protective vaccines. Ab may also be used to differentiate between lymphomas, and HHV8 may be implicated in many other lymphoproliferative diseases such as lymphomas, leukaemia, splenomegaly and mycosis fungoides. Cells and animals containing the nucleic acid are useful for drug screening. HHV8-derived nucleic acid can be used as targets for antiviral drugs, e.g. dihydrofolate reductase gene can be inhibited with methotrexate. These can also be used to determine the immune status of a patient infected with HIV. HHV8 derived protein viral MIP II may be used as an anti-inflammatory agent for, e.g. treating rheumatoid arthritis. This sequence is stated as containing 81 open reading frames.

Sequence 137507 BP; 32579 A; 37795 C; 35758 G; 31375 T; 0 other;

Query Match 2.0%; Score 40.4; DB 19; Length 137507;
 Best Local Similarity 44.0%; Pred. No. 9.4;
 Matches 170; Conservative 0; Mismatches 216; Indels 0; Gaps 0;

```

Oy 514 CTGAAAAACAGATGAAGTCTCTGAGCAGCGCAGATGACCAACAAAGCTCGGAG 573
    ||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db 125106 CAGCAGATGAGCAGCAGCAGCAGATGAGCAGCAGCAGATGAGCAGCAGCAG 125047
Oy 574 GAGGCCACCGACACCTCAAGTGCAGTAAACATGAGAGCAAAATTTGAGCTTCTCTCCAG 633
    ||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db 125046 GATGACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCTTGAAG 124987
Oy 634 AGCCAGCGTTCTGAGGTGAGAGAGATGATTGAGACATGGGTGTGGACATGACGGGTG 693

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CC diagnostics, forensics, gene mapping, identification of mutations

Oy	651	GTGAGCAGCTGGCTGTGTACTCTCGTGTCCCTTCAGAAAGAACTATATGACAATCTGAAGAA	750
Db	4335	gtgaaacagatctaatatgtctgtcttcacagctctgataaagaacaaagaacttgcacaag	4394
Oy	751	GCTGGAGAGCCACACAGGGAACTCGCTGCACAGTTGAACAAAGATTTGGTGCCTTAGG	810
Db	4395	gtcttcgcagaatctgaaacagaagtaatgtagaacctcagtcgcgaacttgcaggtccctccag	4454
Oy	811	AGCAAGTTGAAGACTCTCAACACTGAGCTGTGATGACGCCAAGTTTGAAGCTAGGTCAACC	870
Db	4455	aaggaagtcgcgttctctccagcaactgcagctgattcaagtgaaatctgctacagagaaatcc	4514
Oy	871	CAGAAAGCACTTACAAATGCTGTGACCGAGGATCACAGGCTTAAGAAAGAAAGTGTGATAT	930
Db	4515	cttgatcatctcttgaactctaaagcgagagataaagaactctcaacagagatcttcgac	4574
Oy	931	CCTCCAGGGAACCTTG	946
Db	4575	ctgacacagacaaatct	4590

PT Fragments of chemically modified genes associated with tumour suppressor

PT analysing diseases associated with cytosine methylation state e.g.

PT cancer -
XX
XX Claim 1: SEQ ID No 84; 27pp; English.
XX
CC The invention relates to a nucleic acid comprising a sequence of 18
CC bases, of a segment of chemically pretreated DNA (CP DNA) e.g. with
CC bisulphite, of genes associated with tumour suppression and
CC oncogenes having a sequence taken from 536 (actually 533 since
CC numbers 408, 458 and 500 are missing from the sequence listing) sequences
CC (SS) and sequences complementary to (Ss). The nucleic acid may be a
CC peptide nucleic acid-oligomer (PNA) of at least 9 nucleotides and may
CC form part of a set of probes for detecting the cytosine methylation state
CC and/or single nucleotide polymorphisms and also to be used in an
CC array for analysing diseases associated with CpG dinucleotides e.g.
CC cancers and tumours. The probes can also be used in a method for
CC ascertaining genetic and/or epigenetic parameters for the diagnosis
CC and/or therapy of existing diseases or the predisposition to specific
CC diseases, by analysing cytosine methylations. The parameters may be
CC compared to another set of genetic and/or epigenetic parameters, the
CC differences serving as basis for diagnosis and/or prognosis events which
CC are disadvantageous to patients. The present sequence is one of the
CC 533 genomic sequences derived from tumour suppressor genes and
CC oncogenes. Sequences with even numbered Seq ID numbers are the
CC complementary sequence of the corresponding odd numbered sequence (e.g.
CC ID 2 and ID1, ID 536 and ID 535, except for those whose partner sequence
CC is missing).
CC Note: The sequence data for this patent did not form part
CC of the printed specification, but was obtained in electronic
CC format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 6413 BP; 1401 A; 100 C; 1647 G; 3263 T; 2 other;

Query Match 2.0%; Score 40; DB 22; Length 6413;
Best Local Similarity 65.9%; Pred. No. 2.3;
Matches 58; Conservative 0; Mismatches 30; Indels 0; Gaps 0;

QY 1888 TGGGGTGAAGTGTGATGAGGAAGTTGGGGAAGTTTGTGCTAAATAAAGGAT 1947
DB 1837 taggtctgaagtgtagtgaagtgctgtcttcttgaagtcataagagaagagat 1896
QY 1948 CTTTCTTCACAAAAA 1975
DB 1897 ttgtttataaaaaa 1924

RESULT 36
AAA10594
ID AAA10594 standard; DNA; 10732 BP.
XX
AC AAA10594;
XX
DT 29-JUN-2000 (first entry)
XX
DE Gene encoding a subunit of cellulose synthase.
XX
KM Cellulose synthase; cellulose production; increase yield; ds.
XX
OS Vigna angularis.
XX
PN JP2000060568-A.
PD 29-FEB-2000.
XX
PF 26-AUG-1998; 98JP-0239998.
XX
PR 26-AUG-1998; 98JP-0239998.
XX
PA (MIZU/) MIZUNO K.
XX (OTIP) OJI PAPER CO.
XX
DR WPI; 2000-342371/30.

DR P-PSDB; AAV85179.
XX
XX A gene encoding a cellulose synthetic equipment - for the improvement
PT in the amount of cellulose synthesised in a plant body
XX
PS Claim 2; Page 14-21; 32pp; Japanese.
XX
CC This sequence represents a gene encoding a subunit of the cellulose
CC synthase complex of Vigna angularis. The invention relates to subunits of
CC cellulose synthetic equipment, that can be used to increase the amount of
CC cellulose synthesised by a plant. The proteins and genes encoding them
CC can also be used to improve the properties of the cellulose being
CC produced by a plant.
XX
SQ Sequence 10732 BP; 3149 A; 1212 C; 2074 G; 2046 T; 2251 other;

Query Match 2.0%; Score 40; DB 21; Length 10732;
Best Local Similarity 18.5%; Pred. No. 3.1;
Matches 106; Conservative 191; Mismatches 272; Indels 4; Gaps 2;

QY 372 AGCTACACTTCCAGAAAGACAGGAGAAACGGACAGCCACTTATCCACTCT 431
DB 9945 assrtyrsrgysvgaagrayaavaaslyrassrsrasrnysgyaryasrtyrsa 10004
QY 432 ACGGACACCCCTGAGAGACGAATGCTACCGTGAGTCCCTCAGAACGCTTAACAA 491
DB 10005 snymtltthrgylrmtvvaayvahnlrlystrsrysvagghsvacystlyrassr 10064
QY 492 GGCAGAGATGCTGTTCACACCCCTGAATAACAGATGCTCTCGAGAGCGGACGA 551
DB 10065 gylsthraslyryashnaagylthlrhaaastmrtsnhsyshrsgnasvsrmta 10124
QY 552 TGAGACCAACACAGCTGGGAGAGAGCCACCACTCAAGTCAAGATGAACCATGA 611
DB 10125 rgaasaaysgnhastrasgltharagsrsgygaasnglthrsvaagysgarghsaraga 10184
QY 612 GCAATATGAGTCTACTCTCCAGACGCTGCTGAGTGAGGAGATGATGATGAGACAT 671
DB 10185 snsrtrrghvalthlrstrcs-ghsaasgnasngyltrlyrasngysgthnaasyas 10243
QY 672 GGGTGTGGAGAGTCAAGCGGTGAGAGCACTGGCTGTACTGCTGCTCAAGAAAGA 731
DB 10244 ysrtaagsrnysgvagarysgnstratthasrsgsmbsnngnngsrsgystrhs 10303
QY 732 GTATGACAAATCTAGAGACGCTCGAAGCCACACGGGGAAGCTGCTACAGAGTTGAAGAA 791
DB 10304 rargygnsrlysgsrasnngngasngysasnrsrasnsgnhslyhgaagys 10363
QY 792 GGATTTGTGTCCTCTAGAGCAAGTGAAGACTCTCAAA--CACTGAGCTGGATCGAGC 848
DB 10364 aaahsasnysvansrsggaasnasnrasnncysggaayscysgnngnmtlstrysg 10423
QY 849 CAAGTTAGAACTGAGCTCAGCCAGAAAGACTTCAAGTGTGACGACGAGATCAGAG 908
DB 10424 cysstrysasasysasysarstarnaststrghnaaasrsgsaagysngnthrasngy 10483
QY 909 CCTAAGAAAGATCTGATGATCTCTCCAGGGA 941
DB 10484 ysgnysaamtataaarysasasrhasrvaava 10516

RESULT 37
ABL06323
ID ABL06323 standard; cDNA; 1931 BP.
XX
AC ABL06323;
XX
DT 26-MAR-2002 (first entry)
XX
DE Drosophila melanogaster expressed polynucleotide SEQ ID NO 13451.
XX
KM Drosophila; developmental biology; cell signalling; insecticide;

KW pharmaceutical; gene; ss.
XX Drosophila melanogaster.
XX WO200171042-A2.
XX 27-SEP-2001.
XX 23-MAR-2001; 2001WO-US09231.
XX 23-MAR-2000; 2000US-191637P.
PR 11-JUL-2000; 2000US-0614150.
XX (PEKE) PE CORP NY.
PI Venter JC, Adams M, Li PMD, Myers EW.
XX WPI; 2001-656860/75.
DR P-PSDB; ABB62220.
XX
XX New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from Drosophila and for elucidating cell signalling and cell-cell
PT interactions -
XX
XX Claim 1; SEQ ID NO 13451; 21pp + Sequence Listing; English.
XX
XX The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from Drosophila. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of
CC insecticides, therapeutics and pharmaceutical drugs. The invention
CC discloses genomic DNA sequences (AB16176-AB130511), expressed DNA
CC sequences (AB101840-AB16175) and the encoded proteins
CC (ABB57737-ABB72072).
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 1931 BP; 543 A; 499 C; 552 G; 337 T; 0 other;
SQ
Query Match 2.08; Score 39.8; DB 23; Length 1931;
Best Local Similarity 46.8%; Pred. No. 1.4;
Matches 125; Conservative 0; Mismatches 142; Indels 0; Gaps 0;
QY 476 AGAAGCGCTTAACACAGCAGATGCTGCTTCACCCCTGAAAAACAGATGAAGTTCC 535
Db 988 agaagaaccagaagaacagaagaagaagaagaatcagcaacaagaagaagaac 1047
QY 536 TGGAGCAGCGCAGATGAGACCAACAAAGCTCGGAGAGAGGCCGACGACTCAAGTGCA 595
Db 1048 gacagcagcagaagaacagcaagcagctcaagatgagagcagctcgcgaagcaaa 1107
QY 596 AGATGAACCATGAGCAATTTGAGCTCTACTTCAGAGCCAGCTTGTGAGGTGAGG 655
Db 1108 agaaaaagccgcagcagcagatagaatagcaaaaaagaacagcagataaagatacaaaaga 1167
QY 656 AGATGATTGAGACATGGGTGTGGACAGTACAGGGGTGAGTGGCTGTGTACTGCG 715
Db 1168 agaagaagccagaaggaatccaaatcagcagagatggaacacgtctaccgtcgtgaag 1227
QY 716 TGTCCCTCAAGAAAGAGTATGAGATC 742
Db 1228 tgatcaagaagccagtggtatggaac 1254
RESULT 38
AB106322
ID AB106322 standard; cDNA; 3931 BP.
XX
XX ABL06322;
XX
XX 26-MAR-2002 (first entry)
DT

XX
XX Drosophila melanogaster expressed polynucleotide SEQ ID NO 13448.
DE
XX
XX Drosophila; developmental biology; cell signalling; insecticide;
KW pharmaceutical; gene; ss.
XX
XX Drosophila melanogaster.
XX WO200171042-A2.
XX 27-SEP-2001.
XX 23-MAR-2001; 2001WO-US09231.
XX 23-MAR-2000; 2000US-191637P.
PR 11-JUL-2000; 2000US-0614150.
XX (PEKE) PE CORP NY.
PI Venter JC, Adams M, Li PMD, Myers EW.
XX WPI; 2001-656860/75.
DR P-PSDB; ABB62219.
XX
XX New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from Drosophila and for elucidating cell signalling and cell-cell
PT interactions -
XX
XX Claim 1; SEQ ID NO 13448; 21pp + Sequence Listing; English.
XX
XX The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from Drosophila. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of
CC insecticides, therapeutics and pharmaceutical drugs. The invention
CC discloses genomic DNA sequences (AB16176-AB130511), expressed DNA
CC sequences (AB101840-AB16175) and the encoded proteins
CC (ABB57737-ABB72072).
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 3931 BP; 1137 A; 887 C; 966 G; 941 T; 0 other;
SQ
Query Match 2.08; Score 39.8; DB 23; Length 3931;
Best Local Similarity 46.8%; Pred. No. 2;
Matches 125; Conservative 0; Mismatches 142; Indels 0; Gaps 0;
QY 476 AGAAGCGCTTAACACAGCAGATGCTGCTTCACCCCTGAAAAACAGATGAAGTTCC 535
Db 1988 agaagaaccagaagaacagaagaagaagaagaatcagcaacaagaagaagaac 2047
QY 536 TGGAGCAGCGCAGATGAGACCAACAAAGCTCGGAGAGAGGCCGACGACTCAAGTGCA 595
Db 2048 gacagcagcagaagaacagcaagcagctcaagatgagagcagctcgcgaagcaaa 2107
QY 596 AGATGAACCATGAGCAATTTGAGCTCTACTTCAGAGCCAGCTTGTGAGGTGAGG 655
Db 2108 agaaaaagccgcagcagcagatagaatagcaaaaaagaacagcagataaagatacaaaaga 2167
QY 656 AGATGATTGAGACATGGGTGTGGACAGTACAGGGGTGAGTGGCTGTGTACTGCG 715
Db 2168 agaagaagccagaaggaatccaaatcagcagagatggaacacgtctaccgtcgtgaag 2227
QY 716 TGTCCCTCAAGAAAGAGTATGAGATC 742
Db 2228 tgatcaagaagccagtggtatggaac 2254
RESULT 39
ABA5819/c
ID ABA5819 standard; DNA; 475 BP.
XX
XX

XX ABA58819;
AC
XX
DT 01-FEB-2002 (first entry)
XX
DE Human foetal liver single exon nucleic acid probe #7124.
XX
KW Human; foetal liver; gene expression; single exon nucleic acid probe; ss.
XX
OS Homo sapiens.
XX
PN WO200157277-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00669.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-483447/52.
XX
PT Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human fetal liver -
XX
PS Claim 1; SEQ ID NO 7124; 639pp + sequence listing; English.
XX
XX The invention relates to a single exon nucleic acid probe for
CC measuring human gene expression in a sample derived from human foetal
CC liver. The single exon nucleic acid probes may be used for predicting,
CC measuring and displaying gene expression in samples derived from human
CC foetal liver. The present sequence is a single exon nucleic acid
CC probe of the invention.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pctl_sequences.
XX
SQ Sequence 475 BP; 38 A; 198 C; 45 G; 194 T; 0 other;

Query Match 2.0%; Score 39.6; DB 22; Length 475;
Best Local Similarity 46.4%; Pred. No. 0.73; Mismatches 149; Indels 0; Gaps 0;
Matches 129; Conservative 0;

QY 483 CTTAACAAGCAGATGCTGTGTTCCACCTGAAAAACAGATGAATCTCTGGAGCA 542
DB 401 CTTGAGCTGGAGAGACAGCAAGATCTGTCTCAAAAAACAGAGAAGAGAGAAAGCA 342

QY 543 GCGGAGATGAGACCAACAGCTCGGAGAGGCCCAACGACTCAAGTGCATGATAA 602
DB 341 GAAGGAA 282

QY 603 AACCTGAGCAAAATTGAGCTCTCTACTCCAGACGCGTTCTGTGAGAGATGAT 662
DB 281 GAAGAA 222

QY 663 TCGACATGAGGTGTGGAGACAGTCAGCTGGAGAGCAGCTGCTGTGTCTGCTGCT 722
DB 221 GAAGAA 162

QY 723 CAAGAAAGATGTGAGATCTGAAGGAAGCTCGGAAG 760
DB 161 GAAGAA 124

RESULT 40
ABA27737/C
ID ABA27737 standard; DNA; 475 BP.
XX
AC ABA27737;
XX
DT 23-JAN-2002 (first entry)
XX
DE Probe #6203 for gene expression analysis in human heart cell sample.
XX
XX Human; gene expression; heart; microarray; vascular system; probe;
KW cardiovascular disease; hypertension; cardiac arrhythmia;
KW congenital heart disease; ss.
XX
OS Homo sapiens.
XX
PN WO200157274-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00666.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-488899/53.
XX
PT Single exon nucleic acid probes for analyzing gene expression in human
PT hearts -
XX
XX Claim 1; SEQ ID NO 6203; 530pp; English.
XX
XX The present invention relates to single exon nucleic acid probes for
CC measuring human gene expression in a sample derived from human heart. The
CC present sequence is one such probe. The probes may be used for
CC predicting, measuring and displaying gene expression in samples derived
CC from the human heart via microarrays. By measuring gene expression, the
CC probes are useful for predicting, diagnosing, grading, staging,
CC monitoring and prognosing diseases of the human heart and vascular system
CC e.g. cardiovascular disease, hypertension, cardiac arrhythmias and
CC congenital heart disease.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pctl_sequences.
XX
SQ Sequence 475 BP; 38 A; 198 C; 45 G; 194 T; 0 other;

Query Match 2.0%; Score 39.6; DB 22; Length 475;
Best Local Similarity 46.4%; Pred. No. 0.73; Mismatches 149; Indels 0; Gaps 0;
Matches 129; Conservative 0;

QY 483 CTTAACAAGCAGATGCTGTGTTCCACCTGAAAAACAGATGAATCTCTGGAGCA 542
DB 401 CTTGAGCTGGAGAGACAGCAAGATCTGTCTCAAAAAACAGAGAAGAGAGAAAGCA 342

QY 543 GCGGAGATGAGACCAACAGCTCGGAGAGGCCCAACGACTCAAGTGCATGATAA 602
DB 341 GAAGGAA 282

QY 603 AACCTGAGCAAAATTGAGCTCTCTACTCCAGACGCGTTCTGTGAGTGAAGATGAT 662
DB 281 GAAGAA 222

